

# RAILWAY AGE

THE STANDARD RAILROAD WEEKLY FOR ALMOST A CENTURY

FEBRUARY 23, 1953

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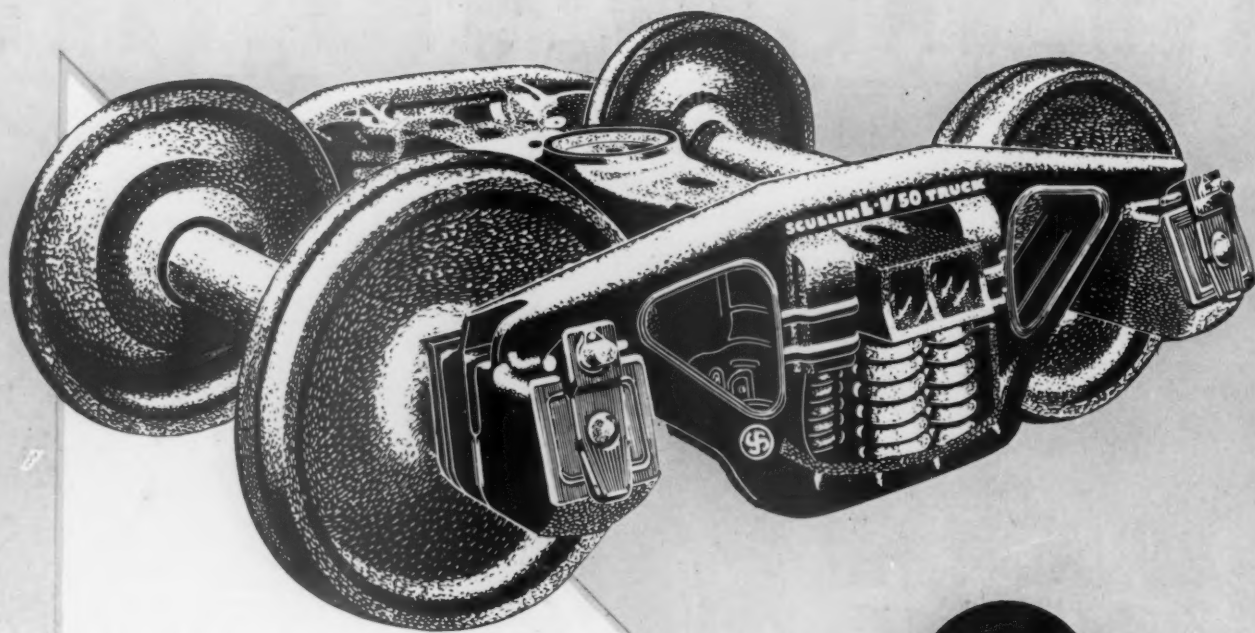


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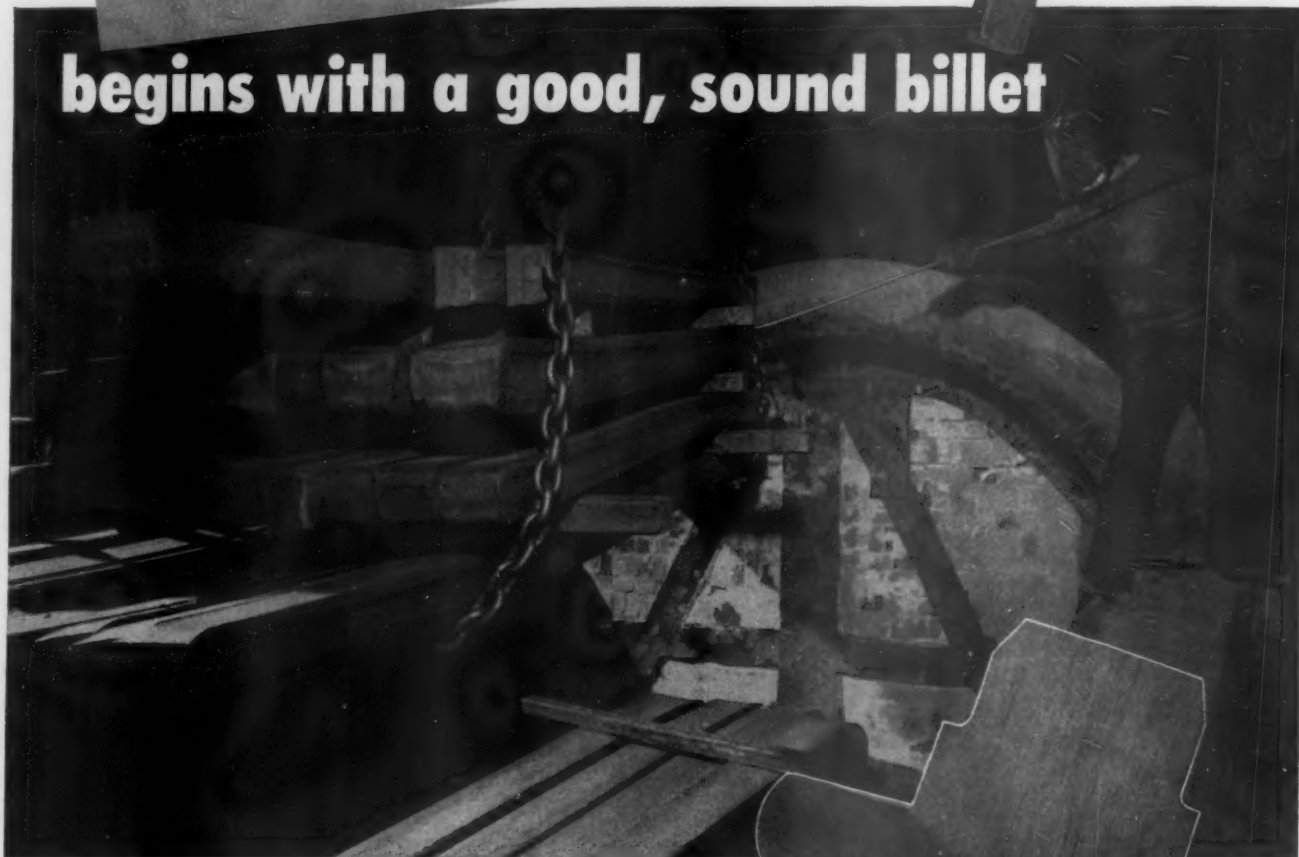
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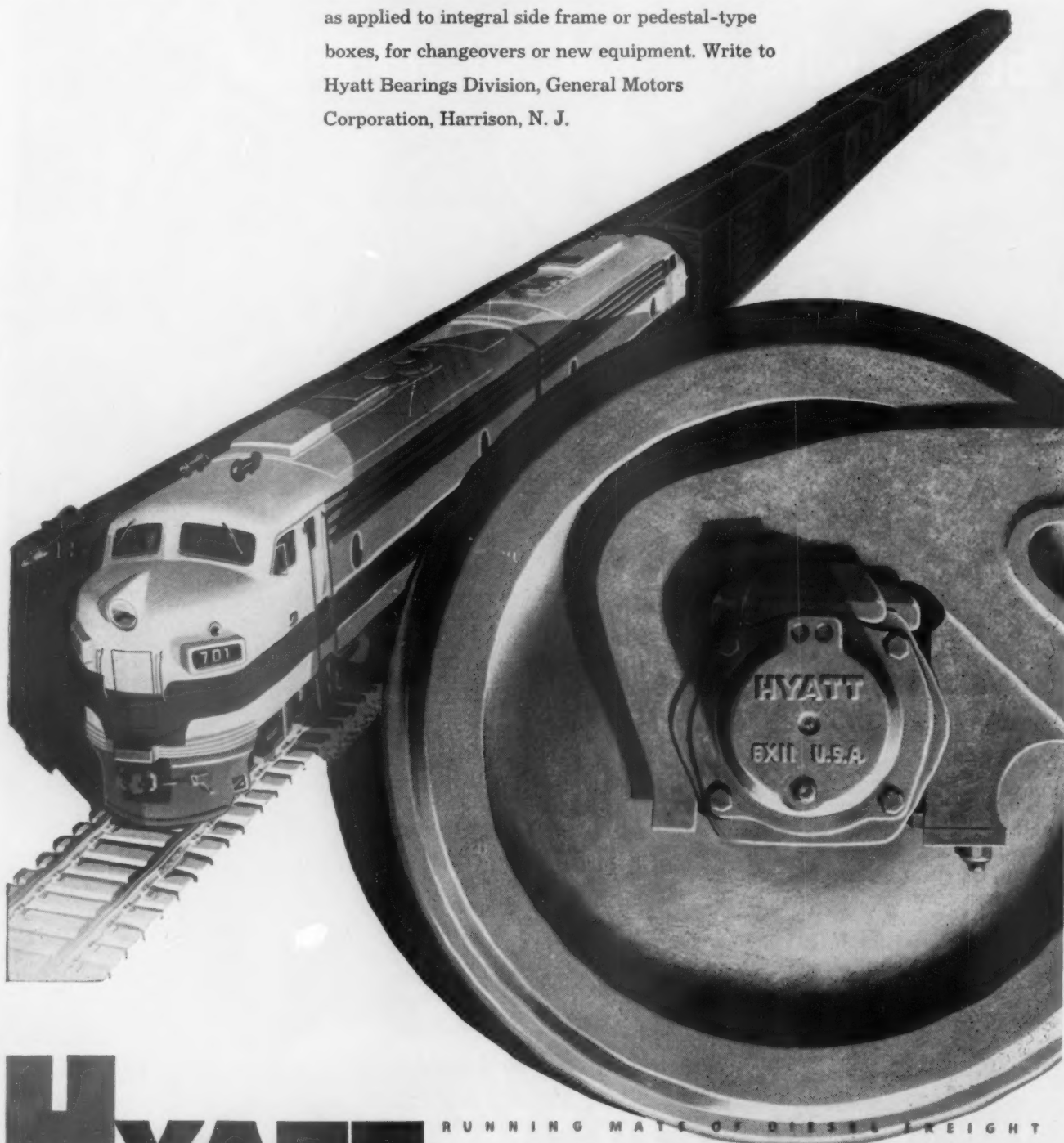


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**Roller Bearing Journal Boxes**



# RAILWAY AGE

With which are incorporated the Railway Review, the Railroad Gazette, and the Railway-Age Gazette. Name Registered in U. S. Patent Office and Trade Mark Office in Canada.



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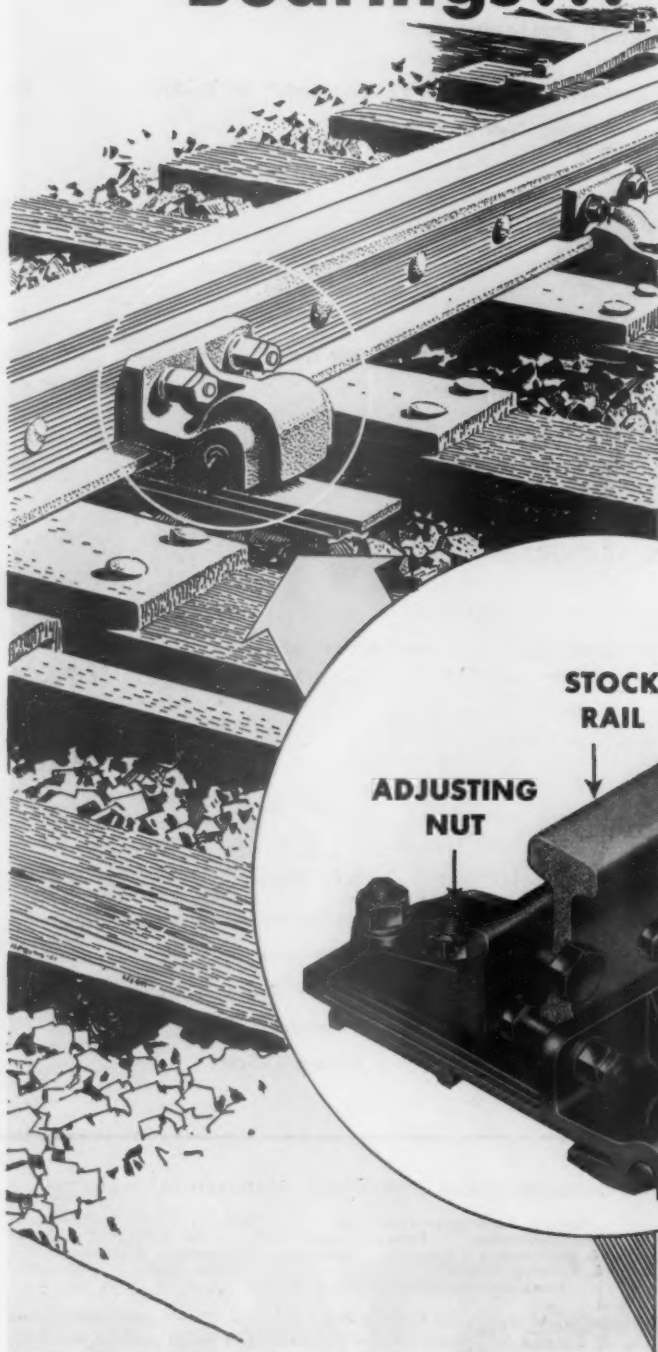
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# IMPROVED SWITCH OPERATION with "UNION" Roller Bearings...



## Here's What the Records Show!\*


*\*Factual data supplied upon request.*

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3. Less wear of connections and operating mechanism.
4. Spring switch and mechanical facing point lock performance improved.
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DIVISION OF WESTINGHOUSE AIR BRAKE COMPANY

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NEW YORK • CHICAGO • ST. LOUIS • SAN FRANCISCO

# WEEK AT A GLANCE

## CURRENT RAILWAY STATISTICS

Operating revenues, twelve months	
1952	\$10,581,418,145
1951	10,391,883,739
Operating expenses, twelve months	
1952	\$ 8,053,003,585
1951	8,043,948,634
Taxes, twelve months	
1952	\$ 1,261,741,356
1951	1,203,399,838
Net railway operating income, twelve months	
1952	\$ 1,078,454,945
1951	941,124,293
Net income, estimated, twelve months	
1952	\$ 826,874,000
1951	690,568,000
Average price railroad stocks	
February 17, 1953	66.97
February 19, 1952	55.22
Car loadings, revenue freight	
Six weeks, 1953	4,042,797
Six weeks, 1952	4,295,638
Average daily freight car surplus	
February 14, 1953	68,765
February 16, 1952	8,629
Average daily freight car shortage	
February 14, 1953	1,206
February 16, 1952	4,023
Freight cars delivered	
January 1953	7,981
January 1952	8,642
Freight cars on order	
February 1, 1953	77,414
February 1, 1952	120,251
Freight cars held for repairs	
January 1, 1953	93,027
January 1, 1952	95,425
Average number of railroad employees	
Mid-December 1952	1,223,163
Mid-December 1951	1,243,095



## In This Issue . . .

**A FLOOD OF NEW DIESELS** will be going into railroad service in all parts of the country within the next several months, as a result of orders placed or announced within the past few days, and reported in the Equipment & Supplies department. Biggest buyer was the North Western, with 101 units, followed by the Santa Fe, 97; the C&O, 67; the Great Northern, 37; the DM&IR, 15; and at least half a dozen other roads which bought from one to six units each. Orders listed in this one issue come to 337 units—almost four times the total number previously reported this year. The Southern Pacific authorized purchase of 150 more units totaling 225,000 horsepower.

**TRANSMITTERS AND loudspeakers** are being used by the St. Louis-San Francisco to expedite car inspection at Springfield, Mo. As described on page 47, it's another interesting example of the time- and money-saving uses railroads are constantly finding for electronic communication equipment.

**SUCCESSFUL ACHIEVEMENT** of the railroads' program to build up their freight-car fleet necessarily depends on many factors—the levels of rates and of loadings, and the supply of materials, to name only a few. But one of the most important factors, if the "vicious circle" in which the program is presently caught is to be broken, is the placing of orders by the railroads themselves. Without such orders, says this issue's editorial comment (pages 45 and 46), "whatever else may be done will be futile."

**HOW EACH CLASS I RAILROAD** fared in 1952, compared with 1951, in terms of gross revenues, operating expenses, operating ratio, and net railway operating income, is set out in detail in the regular monthly summary of "Revenues and Expenses." These tables, in this issue, are on page 36-39.

**NEXT WEEK'S** *Railway Age* is going to seem awfully thin, but it will be so by deliberate design, as the first issue to be printed under a new publishing policy, tried and proved successful by other weekly business magazines. Details of this new policy are explained on page 46.

## In Washington . . .

**GRAPHIC EVIDENCE** of the way railroad costs have gone up is included in one of this issue's leading news articles, reproduced from the most



## WEEK AT A GLANCE

recent issue of an I. C. C. Bureau's "Monthly Comment." Briefly, it shows that, while revenues nearly doubled, dollarwise, between 1941 and 1952, railway operating income increased less than 10 per cent. That's in dollars, too — with no allowance for the decade's decrease in the purchasing power of those dollars.

**EVIDENCE OF THE LONG-TERM INCREASE** in safety of railroad travel—and railroad work—continues to pile up in impressive fashion! For one thing, the fiscal '52 report of the I.C.C.'s Bureau of Locomotive Inspection, reviewed on pages 55-56, reveals a "steady decline in accidents and casualties since 1947"; for another, the latest "Monthly Comment" of another commission bureau shows that 1952 was not only the safest year on record for railroad passengers, but for railroad employees as well! On the subject of safety, incidentally, the statement on this page in last week's issue—that 1952 was also the air lines' "safest year"—was not quite correct. It was not the calendar year that the fly boys were bragging about—but an arbitrarily selected period of 365 lucky days, beginning, strangely enough, on February 13, 1952, and ending tragically in the Gulf of Mexico just a few days ago.

### ... And Elsewhere

A **SPECIAL TAX ON MOTOR TRANSPORT** will be levied to make up the \$80,000,000 deficit incurred by the state owned Greek railroads during the fiscal year 1951-52. The nature of the tax—according to a report, published in *Foreign Commerce Weekly*, from the American Embassy in Athens—has not yet been determined. "A recent study by the Mutual Security Agency," the report added, "indicates that if other Greek government agencies were to carry on their own budgets their share of the railroads' cost by paying normal fares, the railroads' operating deficit could be reduced to a negligible amount. Thus, the railroads' deficit is in large part a bookkeeping operation."

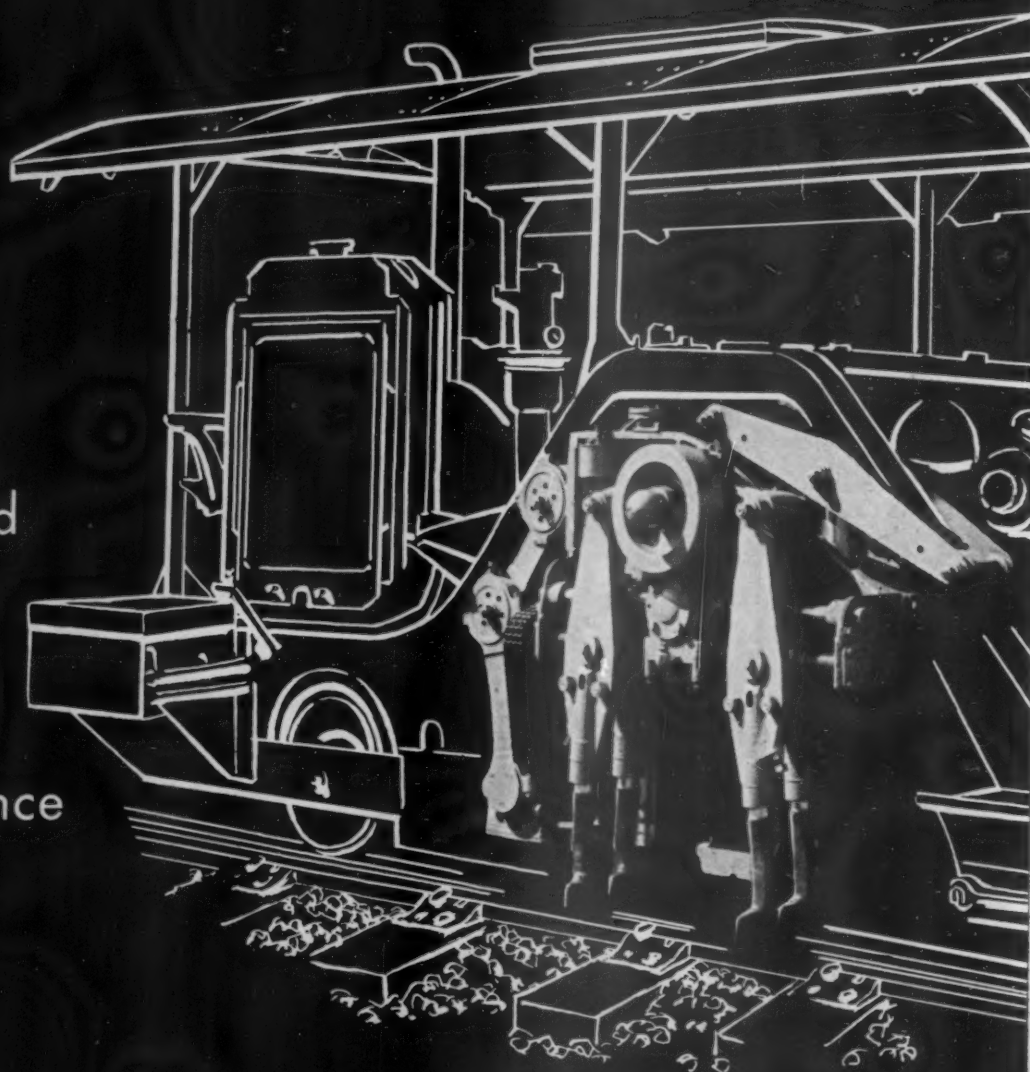


**CECIL M. SELF** (above), for the past four years executive vice-president of the Norfolk Southern, has been elected president of that company, to succeed Joseph T. Kingsley. These and other changes among the railroad's directors and officers, including election of General Superintendent L. P. Kennedy as vice-president, are noted on page 58, in an article which reviews in detail the railroad careers of the new and former NS presidents.

**"WHY NOT** take our dining cars out of service and, in their place, have the conductor walk through the train and hand out a brand new paper dollar to every passenger who would normally use our dining cars? We would save money. We could give the dollar away and still be 21 cents better off than we are today." Admittedly day-dreaming, President John P. Kiley of the Milwaukee employed this bit of fantasy to depict for the daily press how sky-high labor costs have hit dining car operations. Terming the savings from precooked frozen foods, "tray" meals, limited menus, etc., as "unimportant," Mr. Kiley explained: "Our food costs are reasonable. It's our labor costs that are impossible."

**TELEVISION AND RADIO** appear to be giving a lot of attention these days to subjects in or closely related to the railroad field. The January 13 subject for DuPont's radio program, "Cavalcade of America," was the invention of the air brake by George Westinghouse. T. R. Hudd, president of National Carloading Corporation, was one of the business executives slated to discuss his company's work over the Dumont television network's "Meet the Boss" program; and Kidder, Peabody & Co. has been sponsoring a series of radio broadcasts over station WOR, on the general subject of "Your Money at Work," which have given heavy emphasis to railroads, both as providers of transportation and as avenues for investment.

the  
new  
standard  
of  
track  
maintenance



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By Hungerford

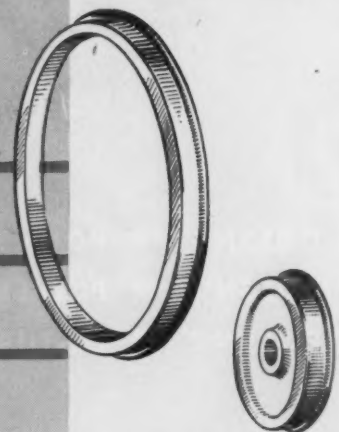
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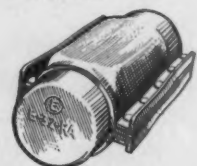


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**EDGEWATER  
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COMPANY**



SERVING AMERICA'S RAILROADS  
WITH ROLLED STEEL TIRES, WHEELS and DRAFT GEARS







## How to tie up a railroad...fast

**Nobody could say how the fire started, but then, nobody had been in the power room or relay room for several hours. By the time the smell of fire seeped up to the towerman, the damage was done. Traffic was paralyzed all along the division.**

Like an unexpected blow to a nerve center, fire in a signal control tower can tie up traffic in the twinkling of an eye. With this in mind, railroads are now installing fast, sure-acting C-O-TWO Railroad Fire Protection Systems to guard against the possibility of fire from short circuits or other electrical faults in the power room, relay room, control machine, cable trenches and vertical wireways of signal control towers.

At locations where a deep-seated, smoldering fire as well as a fast burning fire might occur, the smoke detector of a

C-O-TWO Smoke Fire Detecting System automatically detects the first trace of smoke, smoldering or fire. Where flammable liquids might cause a flash fire, the heat detectors of a C-O-TWO Heat Fire Detecting System automatically sound a warning at the first flash of fire.

Then clean, dry, non-conducting, non-damaging carbon dioxide is quickly released from a C-O-TWO High Pressure Carbon Dioxide Type Fire Extinguishing System into the threatened area. The fire is out in seconds with a minimum of interruption to operations and the carbon dioxide disappears without a trace . . . harmless to equipment, wiring and finishes.

### WHEN TRAFFIC STOPS . . . INCOME STOPS!

Don't take chances with your traffic control systems. Secure the benefits of highly efficient railroad fire protection engineering today . . . our extensive experience over the years is at your disposal without obligation. Get the facts now!



MANUFACTURERS OF APPROVED FIRE PROTECTION EQUIPMENT  
 Squeeze-Grip Carbon Dioxide Type Fire Extinguishers  
 Dry Chemical Type Fire Extinguishers  
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STEEL TIE STRAP

20-GAUGE CORRUGATED  
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PERMANENTLY BONDED  
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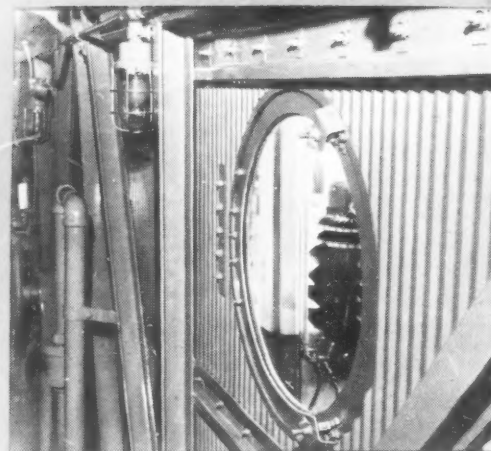
CROSS SECTION—THREE TIMES ACTUAL SIZE





# GENERAL MOTORS LOCOMOTIVES

**STRONGER, LIGHTWEIGHT PANELS AT FAR LOWER COST—NOW IN PRODUCTION FOR ALL PASSENGER AND FREIGHT LOCOMOTIVES AND AVAILABLE FOR REPLACEMENT SHIPMENT**



Center swing sash application of new all-metal corrugated panel in F7 locomotive unit.

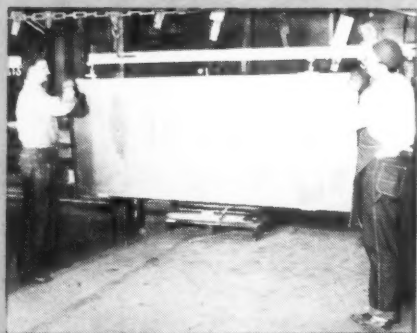
● **SUPERIOR STRENGTH AND DURABILITY** at far lower cost per unit are what you get with the new all-metal side panels now under production at Electro-Motive for all passenger and freight units. Far superior to former metal-bonded-to-wood construction, these new panels have been under actual in-use tests for months. And now they're ready for application to all freight and passenger units, new or old.

**SECRET OF SUCCESS** in making these new panels is the use of a special Buna "N" synthetic, rubber-base, heat-setting adhesive that bonds the panels into an integral unit that's strong, light in weight, easily handled. They're capable of resisting temperatures ranging from -60° to 450°. Rust and corrosion cannot attack interior surfaces. There are no soldered seams to fail in these panels—no way for water to penetrate and cause

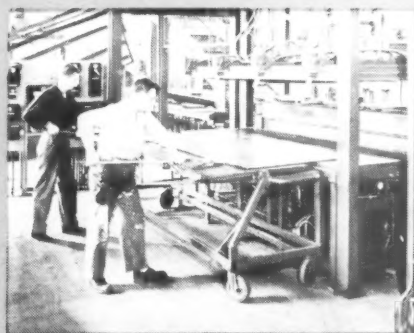
rotting. Laboratory tests indicate a service life of 25 years under normal operations.

**LATEST DEVELOPMENT OF GM ENGINEERING**, these new panels are turned out at Electro-Motive on a modern conveyORIZED assembly line—a complete, ready-to-install panel every four minutes.

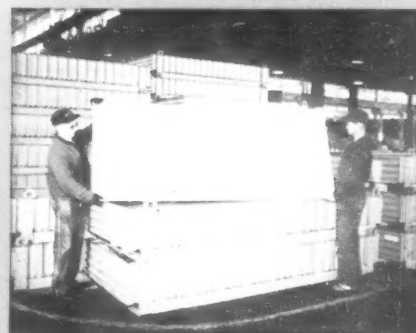
**HERE**—and wherever engineered improvements can add to the service and reduce the cost of a General Motors Diesel locomotive—you'll find the combination of the *right* specially designed equipment and skilled workers that mean highest quality. For Electro-Motive combines the world's largest Diesel experience with the industry's most modern and most complete facilities to produce top-quality locomotives and parts at the lowest possible cost.



**CONVEYORIZED ASSEMBLY LINE METHOD** of manufacture cuts costs. Assembled panel is being loaded on conveyor for bonderizing and prime painting.



**SPECIAL FIXTURES**, developed by Electro-Motive engineers, bond the panels into an integral unit under a combination of heat and pressure, with automatic control of time-cycle.



**FINISHED PANELS** being stacked in special containers for shipment to production lines and to Electro-Motive Parts Warehouses where they will be ready for quick delivery to railroads.

**ELECTRO-MOTIVE DIVISION  
GENERAL MOTORS**

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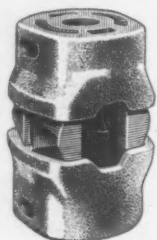
**GENERAL MOTORS**  
LOCOMOTIVES





# How to get the **SMOOTHEST POSSIBLE RIDE** from an A.A.R. coil spring group!

*the simple, compact  
ASF Simplex Snubber...*



*...for smoother riding  
at lowest possible cost!*

The answer for any railroad—looking for the lowest-cost way to renovate old freight cars—is the ASF Simplex Snubber!

Here's a simple, interlocking, easy-to-install unit that prevents the build-up of harmonic oscillation and vibration. Just five simple parts work together: under load, the *rubber spring* compresses, forcing *two side wedges* against *two follower wedges*. Result? Controlled spring action—to give you the smoothest possible

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Naturally the ride you get from these modified spring groups doesn't equal the riding qualities of the modern ASF Ride-Control Truck or the ASF Ride-Control Package. But, in cases where the age and condition of cars warrant only the *smallest* investment, the Simplex Snubber will pay big dividends in low-cost operation, less lading damage, longer car life, reduced car maintenance costs.

## Facts on smoother riding—at lowest possible costs...


Write today for free bulletin on ASF Simplex Unit Type Snubbers! It gives complete details on construction, operation, and the snubber-coil arrangements that will give you the highest return on your snubber investment.



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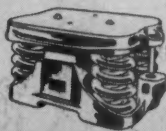
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Brake Beams



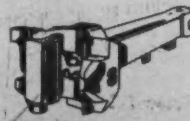
Ride-Control  
Trucks



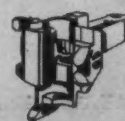
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Type E  
Couplers



Type F  
Couplers



Tightlock  
Couplers



# NEWS

OF  
THE  
RAILROAD  
WORLD



## Senator Tobey Isn't Convinced

**Said he: "On almost every issue that has arisen in the field of transportation, the railroads have taken a highly partisan position"**

"In spite of a declining percentage of the nation's total freight and passenger traffic, the railroads still carry more of both than any other form of public transit. They suffer, however, from many ills of age—such as complex financial structures, ultra-conservative management, and operational rigidity.

"Almost all matters affecting domestic land and water transportation have become railroad matters simply because the railroads have made them so. On almost every issue that has arisen in the field of transportation, railroads have taken a highly partisan position, judging the matter on the basis of its expected impact on the railroads with little thought given to the broader consideration of the national interest. While this criticism can be made of

the other agencies of transportation, it nevertheless applies with special force to the railroads. As the oldest organized transportation system in the country, they have presumed to make themselves the standard of all transportation service, and have systematically and consistently resisted expansion of all other forms of transportation.

"This outlook on life has placed railroad spokesmen in a peculiar position. At one and the same time they find themselves advocating less regulation for themselves and more for competing forms of transportation. And they can justify this inconsistent approach only by saying in effect, 'What's good for the railroads is automatically good for the country.' I'm afraid railroad people would be somewhat naive to really expect us all to swallow this monstrous rationalization.

● **Destructive Warfare.**—"This attitude, I believe, when pressed with the vigor railroads are accustomed to use, and when shared by other transportation agencies, accounts for the bitter, internecine warfare that unfortunately prevails throughout the transportation world.

"This expensive warfare—and the shippers and receivers of freight are paying the bill for it along with the ultimate bill-payers, the consuming public—is destructive warfare too, with valuable time, personnel and efforts tied up in non-productive and wasteful endeavors. This kind of thing helps no one, and sound policy-making and good

legislation are difficult of accomplishment in this atmosphere.

● **Common Carriers "Public."**—"Careful regulation of public purpose corporations is an inherent responsibility of government. As representative of the general public, the regulatory agency itself must be the trustee of the public's interest, subject, of course, to the policy guidance of Congress. There also follow from these basic principles, others almost self-evident.

"(1) As the trustee of the public, the regulatory body is not free to deal generously with a public utility at the expense of the rate payer.

"(2) The regulatory body cannot lawfully guarantee that a public utility will realize net revenues, for such would be an automatic underwriting of the most incompetent management. A regulatory agency's task is simply to set the rates at a level which will provide the utility a fair opportunity to earn a reasonable return.

"There is no need for me to go into the matter of a reasonable return, or just compensation, insofar as the components of these rates are concerned, for the courts have been fairly clear in their definitions in this field. It need only be restated what the Supreme Court long ago laid down as an undeviating rule—that rates charged by a public utility must be reasonable and a rate that does not conform to such a standard is unlawful.

● **Not Like Other Industries.**—"A public utility cannot be considered in the same sense that some non-regulated industries are. They are not entitled to earn profits at the level which is possible for a non-regulated private industry whose operations are relatively speculative. The fact that a public

Senator Charles W. Tobey (Republican of New Hampshire), newly appointed chairman of the Senate Interstate and Foreign Commerce Committee, set forth many of his views on transportation problems while speaking before the 46th annual dinner of the Traffic Club of Chicago on February 12. Here—condensed, but still in the senator's own words—are the thoughts he expressed on key legislative issues directly involving the railroad industry.



utility industry is entitled to ask the state to call upon the public to contribute to its revenues by increasing its rates places the public utility outside the field of speculative profits. The utility's privileged rate position, together with the sheltered status it enjoys in other ways, such as exclusive franchise, endows it with certain obligations arising from that status. The regulation of public utilities, therefore, cannot be criticized or attacked on the grounds that it is an invasion of management. This claim historically has no standing in the law. Public utilities, by definition, are regulated in the public interest because they perform an indispensable function for the community.

● **Rate Regulation.**—"To my mind, the principal legislative problem facing us at this time concerns regulation of railroad freight rates. Rate regulation is the core of all utility regulation. I raise serious question about the wisdom of the railroads' proposed changes in the method of rate-making. Judging by legislation they sponsored in the last session of Congress, the railroads would deny the Interstate Commerce Commission the power of suspending tariffs filed by rate-making associations, thus forcing the commission to rule on proposed changes within 30 days. But I would ask, in view of the very complicated structure of freight tariffs and the involved financial structures of member railroads against which rates of return must be figured, whether 30 days is time enough to permit adequate hearings by the commission; to permit shippers, for instance, to voice their opinions of the proposed changes; or to allow the commission itself to weigh the arguments in a manner suitable to such important decisions.

● **"Time Lag."**—"While proponents of the rate-making changes cite the 'time lag' between the date when a railroad reports increased costs and the date when it is granted a rate increase justifying the changes, should it not also be noted that the commission's rate-making procedures already take into consideration such retroactive aspects? In other words, if railroads can demonstrate that authorized rates have not been sufficient to keep up to increases in costs, the commission's established procedures already are such that interim and final rate increase orders are set at levels to compensate for such time lags. Then too, there is nothing to prohibit shippers from challenging fast rate increases through the courts on the contention that inadequate consideration was given.

#### Not Impressed

"I find it difficult to be impressed by the 'time lag' argument when the record reveals that since July 1946, the I.C.C. has granted no less than 11 general rate increases to the railroads—an average of about two increases a year, with a cumulative percentage in-

crease of about 80 per cent over rates prevailing in 1946. Through further analysis, it appears that the commission has averaged a lag of only three months from submission of a rate increase case to award of an interim or final rate increase. In fact, if criticism should be leveled for any reason,

there are those who suggest that the I.C.C. has been far too generous in those rate increase cases. Certainly, the imposing succession of railroad financial reports I've been reading lately indicate that the vast majority of railroads are doing very well indeed."

## I.C.C. Bureau Shows "Revenue Contributions" Of Interstate and Intrastate Traffic

The Interstate Commerce Commission's Bureau of Accounts and Cost Finding has issued a study which is designed "to indicate generally the distribution of the revenue contribution between interstate and intrastate traffic." It is Statement No. 5-52, and it carries the usual disclaimer to the effect that it was issued "as information" and "has not been considered or adopted by the commission."

The term "revenue contribution" refers to "the amount by which revenues resulting from the rate structure in effect during 1950 exceeded or failed to meet estimated out-of-pocket costs." The interstate-intrastate comparisons are shown by lengths of haul for 10 mileage blocks.

The summary showing is plotted on the accompanying chart. "Commodity Class 960—United States" is that embracing all commodities. The cost figures are derived from the bureau's cost scales, while the traffic data came from the commission's waybill studies.

As the chart shows, the only traffic which failed to meet its out-of-pocket costs was intrastate business moving distances up to 49 miles, where the deficiency was 5.5 per cent. On the other hand, intrastate traffic moving distances from 100 to 199 miles paid

its out-of-pocket costs with 60.9 per cent of its revenue, leaving 39.1 per cent as a "revenue contribution."

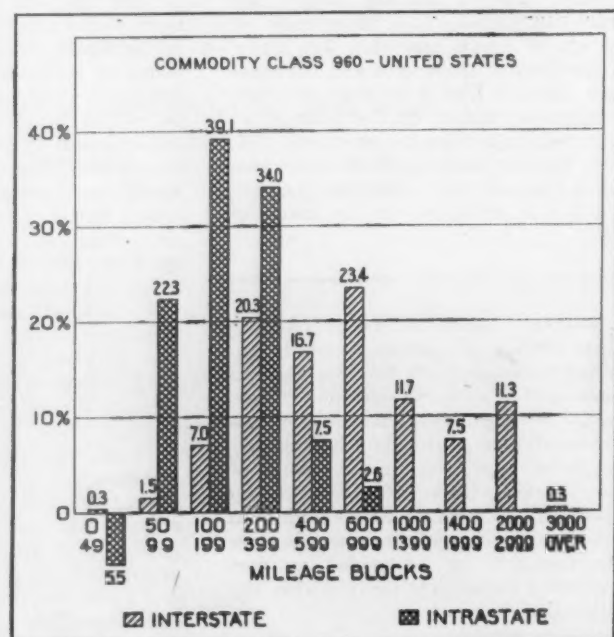
Interstate traffic moving less than 49 miles and that moving more than 3,000 miles, in both instances, made the same "revenue contribution"—0.3 per cent of its revenues.

While the present study is the first of its kind, the introduction explains that it involves "additional separations" of data which were previously published in the bureau's Statement No. 3-52, Distribution of the Revenue Contribution by Commodity Classes, 1950 (*Railway Age*, October 27, 1952, page 12).

### Boston & Albany Back Bay Yards Sold for \$4,500,000

A \$75,000,000 development patterned after New York's Rockefeller Center will be constructed on the 28-acre Boston & Albany coach yards in Boston, which have been purchased from the New York Central System for \$4,500,000 by a syndicate headed by Roger L. Stevens. The yard-sale agreement was signed in Boston on February 12 by Mr. Stevens; representatives of various real estate firms; Charles H. Morton, general land and tax agent of the NYC; John P. McQuade and

Distribution of "revenue contributions"





John F. Burke, assistants to Mr. Morton; and Edmund J. Burke, chairman of the Boston City Board of Assessors. Mr. Stevens also headed the syndicate which in December 1951 bought the Empire State building in New York for \$51,500,000.

After plans for the new development are perfected, it is expected to take the B&A about six months to remove and relocate its tracks. In the meantime, final plans will be made and negotiations completed with hotel, financial and business interests which will participate in the venture. The

project will probably include a hotel, two skyscraper office buildings, at least one building of stores, a large convention hall, a theater and a large underground garage.

The property sold by the railroad covers more than 1,200,000 sq. ft., and is bounded by Exeter, Boylston, Dalton and Belvedere streets and Huntington avenue. Under terms of the purchase agreement, the road's four main-line tracks will be retained, with trains operating through tunnels. Storage tracks for passenger cars will be moved to other available yards.

## Last Year's Net Only 8 Per Cent Above 1941's, Despite 97.9 Per Cent Rise in Gross

Last year's operating revenues of Class I line-haul railroads were 97.9 per cent above the 1941 gross, but their net railway operating income was only eight per cent greater than that of 1941.

This was shown by an analysis of the 1952 results which was included by the Bureau of Transport Economics and Statistics of the Interstate Commerce Commission in its latest "Monthly Comment." Other figures in the issue showed that the 1952 rate of return, on the basis of the commission's valuation, was 4.54 per cent, as compared with 1951's 4.16 per cent.

Last year's gross of \$10,581 million was an all-time high, supplanting 1951's \$10,391 million as the record. The net

railway operating incomes were \$1,078 million and \$943 million, respectively. For 1941, the gross was \$5,346 million and the net railway operating income \$998 million. In that year, the railroads carried 18.7 per cent of the gross to net, compared with 10.2 per cent in 1952.

The accompanying table, reproduced from the "Comment," shows for 38 large railroads (those with 1952 gross above \$50 million), the percentages of 1952 and 1951 gross which were converted into net railway operating income. The figures also show each road's percentage contribution to the revenues and net railway operating income of its territory.

As to net income, the bureau's data

## TELEGRAPHERS TRAINED AT COLLEGE

To help meet the widespread need for railroad telegraphers, the Wabash, in cooperation with Moberly (Mo.) Junior College, has set up a 16-week course for which the railroaders-to-be pay only a \$10 tuition fee. The railroad furnishes telegraph instruments and other equipment, while the college has retained a retired Wabash train dispatcher who has been qualified by the board of education to teach the course. The Wabash also defrays approximately one-third of the cost of the teacher.

The course is limited to male students, in view of the fact that they must handle baggage and mail after graduation. It is further limited to preclude those who might be subject to induction into the armed forces.

Upon completion of the school course—which consists of two-hour classes meeting two nights per week—the students take graduate work in different Wabash depots for a period not to exceed two months. While in this training period the students are granted a subsidy allowance of \$25.00 per week. However, they are not recognized as employees of the railroad until this on-the-job training is completed.

Results of the course, according to a Wabash spokesman, have been very satisfactory.

Road	Per cent net railway operating income of revenues		Per cent revenues of total revenues in territory		Per cent of total net railway operating income in territory	
	1952	1951	1952	1951	1952	1951
<b>Eastern district and Potomac region</b>						
Pennsylvania	7.28	5.70	22.49	22.56	17.06	15.58
New York Central	6.17	4.96	17.64	17.43	11.34	10.48
Baltimore & Ohio	10.02	8.16	9.68	9.75	10.10	9.64
Chesapeake & Ohio	16.02	13.43	7.78	7.95	12.98	12.94
Norfolk & Western	14.59	14.50	4.28	4.46	6.50	7.84
Erie	10.42	11.05	3.86	3.86	4.19	5.17
N.Y., N.H. & H.	6.51	4.96	3.57	3.44	2.42	2.07
N.Y. C. & St. L.	13.99	13.93	3.56	3.47	5.18	5.86
Reading	11.95	10.15	2.88	2.83	3.59	3.49
Wabash	11.75	9.06	2.53	2.40	3.10	2.63
Del., Lacka. & Western	11.65	9.47	2.04	1.94	2.47	2.22
Boston & Maine	5.64	5.46	1.96	1.91	1.15	1.26
Lehigh Valley	13.92	13.13	1.72	1.71	2.49	2.72
Delaware & Hudson	15.28	11.96	1.26	1.28	2.00	1.85
Grand Trunk Western	3.33	6.55	1.24	1.24	.43	.99
Total (15 roads)	9.44	8.11	86.49	86.23	85.00	84.74
<b>Southern region</b>						
Illinois Central	10.40	10.39	20.28	20.28	17.51	19.53
Southern	13.39	10.66	17.95	18.02	19.96	17.80
Louisville & Nashville	12.20	10.73	14.98	15.56	15.17	15.50
Atlantic Coast Line	7.20	6.30	11.23	10.94	6.71	6.39
Seaboard Air Line	14.35	12.85	10.61	10.26	12.64	12.22
Gulf, Mobile & Ohio	11.45	10.65	6.14	6.09	5.83	6.01
Total (6 roads)	11.55	10.30	81.19	81.15	77.82	77.45
<b>Western district</b>						
A. T. & S. F. and affiliated companies	11.48	12.55	13.45	13.24	15.18	17.82
Southern Pacific Co.	10.53	8.92	12.28	11.82	12.71	11.29
Union Pacific	6.30	6.78	11.58	11.73	7.17	8.52
Chic., B. & Q.	11.74	11.30	6.02	6.19	6.95	7.49
C. M., St. P. & P.	6.47	5.77	6.00	6.16	3.81	3.81
Great Northern	9.96	9.36	5.79	5.76	5.67	5.78
Missouri Pacific	11.29	10.01	5.53	5.56	6.14	5.96
Chic., R.I. & Pacific	11.84	8.69	4.76	4.61	5.54	4.29
Chicago & North Western	3.94	3.55	4.59	4.72	1.78	1.80
Northern Pacific	8.67	9.40	3.96	4.03	3.37	4.06
Texas & New Orleans	9.15	8.06	3.30	3.22	2.97	2.78
St. L.-S.F.	13.44	10.19	2.88	2.88	3.80	3.15
M-K-T Lines	12.62	9.10	1.89	1.83	2.35	1.79
Texas & Pacific	15.94	12.78	1.86	1.80	2.92	2.47
Denver & R. G. W.	14.15	15.06	1.83	1.81	2.54	2.91
St. L. S. W. Lines	18.37	12.42	1.64	1.62	2.96	2.15
Northern Pacific	12.63	13.86	1.25	1.29	1.35	1.92
Total (17 roads)	10.03	9.30	88.61	88.27	87.41	87.99

showed that 1952's "partly estimated" figure of \$827 million was 65.4 per cent above 1941's \$500 million. In 1941, however, the net income amounted to 9.4 per cent of the gross, whereas the comparable figure for 1952 was 7.8 per cent.

## Rail, Airline, Truck Ton-Mile Revenues Compared

The Interstate Commerce Commission's Bureau of Transport Economics and Statistics has issued a tabulation comparing ton-mile revenues of railroads, motor carriers and air carriers for the years 1949 through 1952. The tabulation, on the next page, was in the bureau's latest "Monthly Comment."

As to the air-carrier figures, the bureau said available data do not permit publication of a weighted average covering all groups. It added that data for the "uncertificated, non-scheduled" group are "weakest," and "should be considered as of limited significance." In its further discussion of the showing, the bureau had this to say:

"The differences in average revenue presumably reflect substantial differences in traffic characteristics. Thus, the high average revenues for airborne traffic imply the carriage of articles, usually high rated, where rapidity of transportation may be especially important. Again, although the average rail ton-mile revenue for all traffic

# DOMESTIC AVERAGE TON-MILE REVENUES

Type of carrier	1949 (Cents)	1950 (Cents)	1951 (Cents)	1952 (Cents)
Air:				
Domestic trunk-line	19.3	19.1	21.1	e21.7
Certificated cargo:				
Scheduled service	217.2	15.1	15.4	215.5
Nonscheduled service	N.A.	14.0	11.4	235.1
Local and feeder	43.2	29.6	33.5	N.A.
Uncertificated nonscheduled	20.5	21.2	21.7	N.A.
Class 1 motor:				
Common	5.24	5.01	p5.17	N.A.
Contract	4.30	4.56	p4.73	N.A.
Weight average	5.16	4.98	p5.16	N.A.
Rail	1.34	1.33	1.34	21.41
N.A.—Not available				

<sup>1</sup> Elimination from the certificated cargo air carriers of a specialized carrier would change the average revenues per ton-mile for that group to (cents): 1950, scheduled 14.9 and nonscheduled, 14.0; and 1951, 15.3 and 11.4, respectively.

<sup>2</sup> Last quarter only.

<sup>3</sup> Nine months.

in 1951 was a small fraction of the air figure and about a quarter of that for motor carriers, the rail carload revenue per short-line ton-mile is estimated for products of agriculture at 1.9 cents; animals and products, 2.46 cents; products of mines, 1.08 cents; manufactures and miscellaneous, 2.23 cents; and forwarder traffic, 3.01 cents."

## I.C.C. Urges Immediate Angle Cock Inspection

The Interstate Commerce Commission has recommended that all passenger-train cars equipped with tight-lock or similar type couplers operated over any railroad subject to the Interstate Commerce Act be inspected immediately, and that such cars on which any angle cock is so located that the handle can come into contact with any other portion of the car be withheld from service until such condition is corrected.

This recommendation was made by the commission's Division 3 in its report on the January 15 accident at Union Station, Washington, D. C. The investigation was docketed as Ex Parte 184, and the report was by Commissioner Patterson.

Commissioner Knudson noted that he approved "only the statements of fact and the findings" in the report.

The other member of the division is Commissioner Johnson.

On the morning of January 15, the Boston-to-Washington "Federal" smashed into the station concourse in Washington, injuring 87 persons. The concourse floor gave away. The rear of the locomotive dropped into the lower-level baggage room, and three head-end coaches piled into the concourse area.

Division 3's investigation led it to this conclusion: "The angle cocks on New York, New Haven & Hartford coach 8665 and other cars of similar construction are so located that the handles of the angle cocks are permitted to come in contact with the bottom cross member of the buffer pocket portion of the underframe end construction."

New Haven coach 8665 was the third car in the 16-car "Federal" the day the accident occurred. Division 3 said the angle cock at the rear of this car became closed—"obviously as a result of contact between the handle and the bottom cross member"—making brakes on the rear 13 cars of the train inoperative from the locomotive.

"Because the air brakes on the rear 13 cars could not be applied from the locomotive after the angle cock became closed, the engineer was not able to

stop the train short of the end of station track No. 16," the report stated.

At public hearings held shortly after the accident, Commissioner Patterson pursued the theory that vibration might in some way have brought the angle cock at the rear of the third car into contact with the end casting. An I.C.C. safety inspector, H. R. Longhurst, offered testimony to this effect (*Railway Age*, February 2, page 18). This view is reflected in the present report.

After the accident occurred the angle cock and air hose at the rear end of the third car was removed before the car was examined thoroughly, the report said. An examination of the second car was made, this car being of the same construction as the third. The rear of the second car was not damaged.

"It was found," Division 3 said, "that the angle cocks were located directly under the bottom cross members of the buffer pocket portions of the underframe end construction. The angle cock supporting brackets are rigidly attached to and follow the longitudinal, vertical and lateral movements of the coupler bodies."

## Clearances Measured

"With the car uncoupled and the coupler at the undamaged end in normal coupling position the clearance between the top of the angle cock handle and the bottom cross member of the buffer pocket was 2 inches, and that between the top of the coupler head and the bottom of the top cross member was 3 5/8 inches.

"Because of this difference in clearance the angle cock handle was permitted to come in contact with the bottom cross member on upward movement of the coupler before the coupler head would come in contact with the top cross member.

"The angle cock was located directly under the bottom cross member instead of 4 1/8 inches back of the inside face of that member as specified by the New Haven . . . There were no indications that the angle cock had been moved as a result of the accident."

Division 3 reported that abrasion marks were found on the top of the angle cock handle on this second car. Other abrasion marks were found on the bottom side of the bottom cross member. Subsequent examination of the rear end of the third car disclosed similar marks in approximately the same location, the report said.

"There were also abrasion marks showing that the coupler heads of the second and third cars had been coming in contact with the top cross members of the buffer pockets," the report continued.

The fourth car of the "Federal" was a combination baggage-coach car, equipped with "conventional type couplers." Elsewhere, the report identified these couplers as "Pitt couplers." The third car, No. 8665, was equipped with tightlock couplers.

The contrast in design of these coup-



THESE TANK CARS, part of 100 12,500-gal. units recently placed in service by the Barrett division of Allied Chemical & Dye Corp., were built at the Milton, Pa., plant of the

American Car & Foundry Co. Designed for transportation of pitch and similar commodities, each of the all-welded cars is equipped with 20 lines of heating coils and 2-in. insulation.



lers and the truck-spring assemblies "undoubtedly resulted in a considerable increase" in the frequency and intensity of vibrations of the angle cock at the rear of car 8665, Division 3 said.

"Abrasion marks on the handle of the angle cock and the bottom cross member at the rear of car 8665 show that the handle had repeatedly come in contact with the cross member," the report said.

"As the angle cock was so located that contact could be made while the coupler body and the angle cock were moving vertically, and either longitudinally or laterally, it is apparent that as a result of these contacts the handle was unlatched and moved toward closed position a sufficient distance to close the angle cock."

Examination of equipment after the accident disclosed the engineer had successfully obtained an emergency application of the brakes of the locomotive and the first three cars of the train. No effective application was obtained on the other cars, the report said.

Shortly after the accident occurred, Division 3 reported, an employee attempted to separate the air hose between the third and fourth cars. He found a "considerable amount of air pressure" in the hose and he opened the emergency valve at the front end of the fourth car. There was a forceful exhaust. Brakes on the fourth, fifth and sixth cars became applied. (Other cars to the rear had previously been removed by a yard engine.)

This employee then discovered the angle cock at the rear of the third car was "about 80 degrees from fully open position." Subsequent tests indicated that the port of the angle cock "completely closed" when the handle was moved 65 degrees from fully open position, Division 3 said.

### O.D.M. Modifies Controls; Next Move Under Study

Questions about future freight car steel allocations arose last week when the Office of Defense Mobilization announced it had modified existing controls over steel, copper and aluminum.

The Controlled Materials Plan was relaxed, effective February 13. Producers of steel, copper and aluminum were authorized, after they have honored C.M.P. tickets, to serve any customer without further reference to the government.

This "open-end" situation will apply until June 30. Meanwhile, studies are being made regarding the type of materials control that will be required after that date.

The Defense Transport Administration, claimant agency for freight car and locomotive steel, was understood to be participating in these studies. It was stated at D.T.A. that allotments for freight car and locomotive production would remain under C.M.P. until June 30.

Under study was the question of whether controls would extend to the so-called defense-supporting industries after June 30, or be limited to strictly military and atomic energy requirements. The Steel Products Industry Advisory Committee advised in favor of the latter when the committee met last week with the National Production Authority.

Allotments already have been made for the second quarter. They are sufficient to provide for the construction of around 27,000 freight cars and 875 locomotive units during the April-June period.

### Carleton W. Meyer Dies

Carleton W. Meyer, 49, transportation consultant and former assistant to president of the Chesapeake & Ohio and the New York Central, died on February 16 at Greenwich (Conn.) Hospital, after suffering a stroke the previous evening.

Born at Madison, Wis., August 27, 1903, Mr. Meyer attended the University of Wisconsin (A.B., 1924) and Harvard Law School (LL.B., 1927). He began the practice of law in association with C. C. McChord at Washington, D.C., in January 1928; and from September 1929 to May 1931 was an attorney for the Cambria & Indiana,



Carleton W. Meyer

J. H. Weaver & Co., and associated companies, at Philadelphia. He was named attorney for the Delaware & Hudson at New York in May 1931, and became commerce counsel of the New York Central system at New York in October 1936. From August 1940 to August 1946 he was assistant to president of the NYC system, and on the latter date became vice-president of American Buslines at Chicago. He was appointed assistant to president of the Chesapeake & Ohio, at Cleveland, in July 1947, and became director of economics and costs for that road in January 1950. Last September Mr. Meyer opened an office for the practice of law and for transportation consultation at 420 Lexington avenue, New York.

### Freight Car Loadings

Loadings of revenue freight in the week ended February 14 totaled 681,750 cars, the Association of American Railroads announced on February 19. This was a decrease of 8,994 cars, or 1.3 per cent, compared with the previous week; a decrease of 56,026 cars, or 7.6 per cent, compared with the corresponding week last year; and a decrease of 58,807 cars, or 7.9 per cent, compared with the equivalent 1951 week.

Loadings of revenue freight for the week ended February 7 totaled 690,744 cars; the summary for that week, compiled by the Car Service Division, A.A.R., follows:

REVENUE FREIGHT CAR LOADINGS			
For the week ended Saturday, February 7			
District	1953	1952	1951
Eastern .....	125,475	128,610	101,789
Allegheny .....	146,392	148,946	118,172
Pocahontas .....	47,424	60,334	46,573
Southern .....	128,566	135,322	107,153
Northwestern .....	72,322	79,994	51,213
Central Western ..	112,365	119,728	98,469
Southwestern ..	58,179	60,985	49,840
Total Western Districts .....	242,887	260,707	199,522
Total All Roads .....	690,744	733,919	573,209
Commodities:			
Grain and grain products .....	42,958	49,813	41,354
Livestock .....	6,229	8,166	4,871
Coal .....	119,761	148,734	118,820
Coke .....	15,551	15,654	14,220
Forest products .....	44,947	43,532	34,884
Ore .....	19,510	20,196	11,979
Merchandise incl. Miscellaneous ..	70,303	78,024	56,038
	371,485	369,800	291,043
February 7 .....	690,744	733,919	573,209
January 31 .....	697,616	731,218	651,165
January 24 .....	697,641	728,015	784,166
January 17 .....	705,479	747,660	779,750
January 10 .....	688,232	744,710	783,015
Cumulative total 6 weeks .....	4,042,797	4,295,638	4,233,732

**In Canada.**—Carloadings for the seven-day period ended February 7 totaled 68,549 cars, according to the Dominion Bureau of Statistics.

	Revenue Cars Loaded	Total Cars Rec'd from Connections
Totals for Canada:		
February 7, 1953 ..	68,549	32,602
February 7, 1952 ..	77,868	38,483
Cumulative Totals:		
February 7, 1953 ..	383,531	164,868
February 7, 1952 ..	408,694	188,919

### Safety Record Covered More Than Passengers

Last year was not only the safest on record for railroad passengers, but it also recorded an all-time low in the number of persons killed in railroad accidents of all kinds. Fatalities to employees on duty were also the lowest on record.

These additional showings of the 1952 accident statistics were noted by the Interstate Commerce Commission's Bureau of Transport Economics and Statistics in the latest issue of its "Monthly Comment."

The 1952 fatalities in railway accidents of all kinds totaled 2,941, compared with 1951's 3,358, the bureau noted. It also compared the 1952 figure with the worst year on record—1907, when fatalities totaled 11,839.

Fatalities to employees on duty (Continued on page 22)





#### PASSENGER PREFERENCE BUILDS REVENUES

Experience in building many thousands of passenger cars of all types makes Pullman-Standard the logical choice to fulfill railroad requirements. Railroad men know there's nothing like passenger

preference to build revenues. And this is the governing rule of Pullman-Standard in building passenger cars . . . to serve the railroads better by serving passengers best.

#### LOOK AT THE RECORDS!

Here's where you find the real proof of design excellence and sound construction. The ten full-length Dome Cars recently delivered to the Milwaukee Road are the result of close cooperation between the railroad engineers and designers with those of Pullman-Standard. The result: traffic building cars that help realize the full potentiality of passenger car revenues.



# Cars built to build traffic

SAFETY AND LUXURY MAKE EACH TRIP AN  
OCCASION—TURN OCCASIONS INTO HABITS

Dome cars of all types maintain Pullman-Standard's famous tradition of leadership in the building of railroad passenger cars. For nearly a century, they have been building cars on the principle that the passengers are the judges. And wherever cars built to the Pullman "standard" are used, additional traffic is resulting—because people soon make a "habit" of riding safe, comfortable cars.

Pullman-Standard solved the challenging engineering and construction problems that had to be met in building the *first* all new

Dome Coach... the *first* Dome Sleeper... and the *first* Dome Diner... and now the *first full-length* Dome Car. In addition, the interiors of these new Dome Cars are artistically styled for pleasant and relaxed riding.

Pullman-Standard makes its experience available for every phase of new car design and construction—for passenger cars of *all types*. You can find an answer to *your* passenger car building problems by using this experience and Pullman-Standard's unmatched production facilities.

YOUR NEEDS CREATE THE PULLMAN "STANDARD"

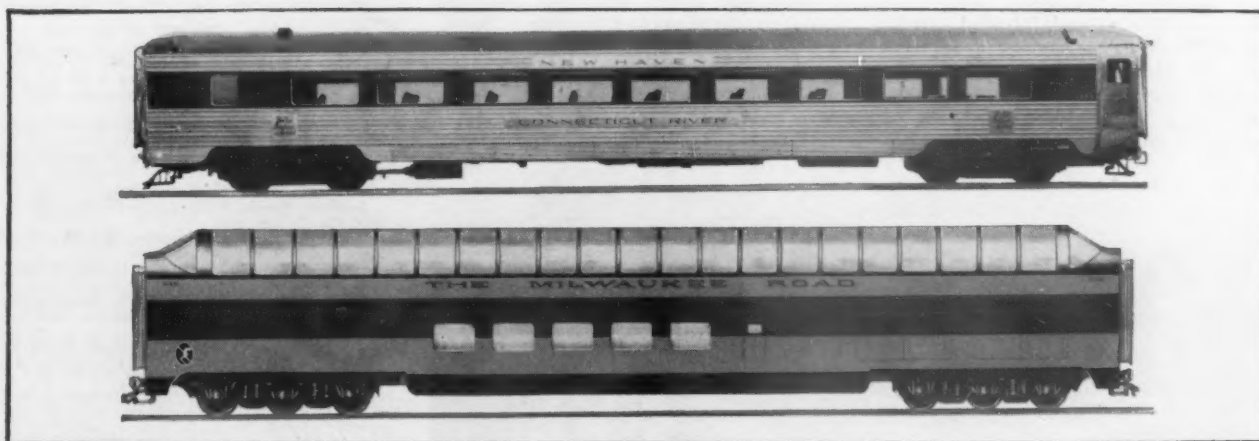
## PULLMAN-STANDARD

CAR MANUFACTURING COMPANY

SUBSIDIARY OF PULLMAN INCORPORATED

79 EAST ADAMS STREET, CHICAGO 3, ILLINOIS

BIRMINGHAM, PITTSBURGH, NEW YORK, SAN FRANCISCO, WASHINGTON



PASSENGER CARS OF ALL TYPES

For the New York, New Haven & Hartford Railroad, this modern parlor lounge car is one of many delivered to this railroad since 1945.

Ten full-length Dome Cars, the first ever built, add new heights in passenger comfort and luxury on the Milwaukee Road.



#### PASSENGER PREFERENCE BUILDS REVENUES

Experience in building many thousands of passenger cars of all types makes Pullman-Standard the logical choice to fulfill railroad requirements. Railroad men know there's nothing like passenger

preference to build revenues. And this is the governing rule of Pullman-Standard in building passenger cars... to serve the railroads better by serving passengers best.

#### LOOK AT THE RECORDS!

Here's where you find the real proof of design excellence and sound construction. The ten full-length Dome Cars recently delivered to the Milwaukee Road are the result of close cooperation between the railroad engineers and designers with those of Pullman-Standard. The result: traffic building cars that help realize the full potentiality of passenger car revenues.





# Cars built to build traffic

**SAFETY AND LUXURY MAKE EACH TRIP AN  
OCCASION—TURN OCCASIONS INTO HABITS**

Dome cars of all types maintain Pullman-Standard's famous tradition of leadership in the building of railroad passenger cars. For nearly a century, they have been building cars on the principle that the passengers are the judges. And wherever cars built to the Pullman "standard" are used, additional traffic is resulting—because people soon make a "habit" of riding safe, comfortable cars.

Pullman-Standard solved the challenging engineering and construction problems that had to be met in building the *first* all new

Dome Coach... the *first* Dome Sleeper... and the *first* Dome Diner... and now the *first full-length* Dome Car. In addition, the interiors of these new Dome Cars are artistically styled for pleasant and relaxed riding.

Pullman-Standard makes its experience available for every phase of new car design and construction—for passenger cars of *all types*. You can find an answer to *your* passenger car building problems by using this experience and Pullman-Standard's unmatched production facilities.

**YOUR NEEDS CREATE THE PULLMAN "STANDARD"**

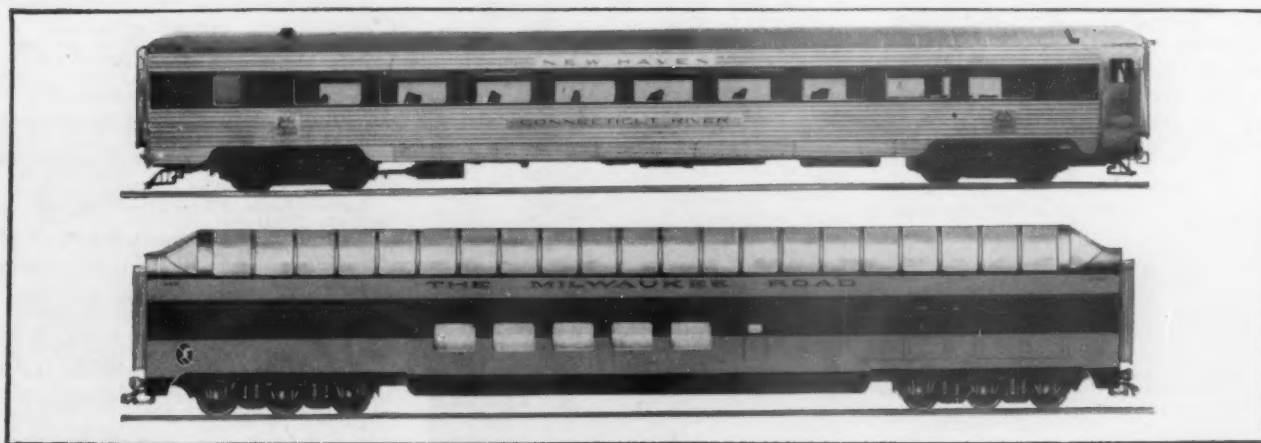
## PULLMAN-STANDARD

**CAR MANUFACTURING COMPANY**

SUBSIDIARY OF PULLMAN INCORPORATED

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BIRMINGHAM, PITTSBURGH, NEW YORK, SAN FRANCISCO, WASHINGTON



### **PASSENGER CARS OF ALL TYPES**

For the New York, New Haven & Hartford Railroad, this modern parlor lounge car is one of many delivered to this railroad since 1945.

Ten full-length Dome Cars, the first ever built, add new heights in passenger comfort and luxury on the Milwaukee Road.

(Continued from page 19)

totalled 354, compared with 1951's 395. As to employee injuries, the 1952 total of 20,257 was the lowest since 1940 (*Railway Age*, January 12, page 11, and February 16, page 15).

### Retroactive Pay Forces CPR to Alter '52 Figures

Retroactive pay increases of 12 per cent for Canadian railroad employees who are members of the Brotherhood of Railroad Trainmen will date back to April 1, 1952, it has been announced. The B.R.T. recently cancelled a strike order against Canadian railroads which had been scheduled to become effective February 2 (*Railway Age*, February 9, page 18).

The CPR revised its recently announced preliminary financial figures for 1952 on the basis of last April 1 as the retroactive date. The same date applies to retroactive pay for firemen and enginemen. September 1, 1952, is the retroactive date for dining car employees' pay. Settlements with these groups were reached before the B.R.T.'s strike threat.

### December Employment

Railroad employment decreased 1.25 per cent—from 1,238,688 to 1,223,163—from mid-November to mid-December, and the mid-December total was 1.93 per cent below that of December 1951.

This was shown by the preliminary summary issued by the Bureau of Transport Economics and Statistics of the Interstate Commerce Commission. The index of employment based on the 1935-1939 average as 100, was 121.8 in December, compared with November's 120.3 and 124.2 in December 1951.

December employment was below that of the previous month in all groups except those embracing executives, officials and staff assistants, and transportation employees, other than those in train, engine and yard service, which were up 0.32 per cent and 1.57 per cent, respectively. The decreases in the other five groups ranged from 5.88 per cent in the maintenance of way and structures group to 0.12 per cent in the maintenance of equipment and stores group.

As compared with December 1951,

there were also decreases in five groups and increases in two. The latter were executives, officials and staff assistants and maintenance of way and structures—up 1.39 per cent and 0.06 per cent, respectively. The decreases ranged from 4.82 per cent in the group embracing transportation employees, other than those in train, engine and yard service, to 0.57 per cent for the "professional, clerical, and general" group.

### Railroad Fined

The Interstate Commerce Commission has been advised by the Department of Justice that on January 6, 1953, in the U.S. District Court for the District of Oregon, judgment was entered in favor of the government and against the carrier in the sum of \$2,500 and costs, in the case of *United States v. Southern Pacific*.

"This was a civil penalty for failure to comply with provisions of Service Order No. 859 and Amendment No. 1 thereto, issued by the commission and prescribing loading regulations at the point of origin for lumber shipments to be subsequently stopped off to complete the loading thereof," G. W. Laird, acting secretary of the I.C.C., said in a January 30 memorandum for the press.

### Frisco Yard Charger Reduces Freeze-Ups in Train Brakes

A new yard air-charging system installed by the St. Louis-San Francisco eliminates moisture from brake pipe air before it enters the train's air system, thereby reducing the possibility of frozen brake lines in winter and corrosion in summer. The system cuts in half the time required to charge an average-length train by the locomotive alone.

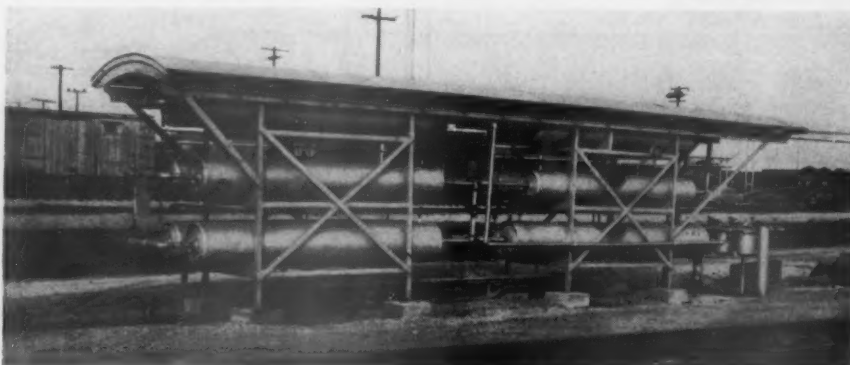
The system, operating on the conventional principle of cooling air before discharge to precipitate the moisture, was designed by the Frisco's car department. It consists of a series of eight reservoirs equipped with feed valves, strainers and alcohol applicators. As the air passes from one reservoir to another on its journey from the compressor to the train brake pipe, it is gradually cooled to atmospheric temperature and the result-

ing condensation is trapped in the reservoirs. Thus, by the time the air reaches the brake pipe, condensation has taken place and clean, dry air enters the line.

This contrasts with the old method, wherein air entered the brake pipe at about 168 deg. F., and cooling, condensation and precipitation of moisture took place in the train air system.

In winter, alcohol is run through the yard system reservoirs as a vapor so the water which condenses from the air will not freeze and can be drained off easily from the reservoirs. This vaporized alcohol also will thaw any ice that may have entered the brake pipe from other sources.

The new system has been installed in yards in Kansas City, Mo.; Tulsa, Okla.; Springfield, Mo., and St. Louis. Future plans call for similar installations at Birmingham, Ala.; Ft. Scott, Kan.; Monett, Mo., and other major terminals.



The Frisco's new yard air charging system to prevent brake line freeze-ups in winter and corrosion in summer.

### Amortization Certificates

Certificates of necessity for accelerated amortization of facilities were granted to 19 railroads during the period from December 4, 1952, through December 17, the Defense Production Administration has announced.

Roads receiving fast write-off certificates are listed below, together with amounts approved by D.P.A. and the percentages of those amounts which can be written off in five years.

Apalachicola Northern, \$307,273—40 per cent.  
Atlantic Coast Line, \$155,000—55 per cent; and \$279,457—40 per cent.  
Baltimore & Ohio, \$1,339,150—40 per cent.  
Chicago, Milwaukee, St. Paul & Pacific, \$2,040,372—40 per cent.  
Georgia Southern & Florida, \$327,747—40 per cent.  
Great Northern, \$244,000—40 per cent.  
Kansas City Terminal, \$29,949—40 per cent.  
Lehigh & New England, \$744,080—70 per cent.  
Louisville & Nashville, \$1,800,416—40 per cent.  
Nashville, Chattanooga & St. Louis, \$542,619—70 per cent.  
New York Central, \$1,195,200—40 per cent.  
Reading, \$175,893—40 per cent.  
Seaboard Air Line, \$1,243,600—70 per cent; and \$35,200—40 per cent.  
Southern, \$490,476—40 per cent.  
Southern Pacific, \$13,619,510—70 per cent; and \$200,934—55 per cent.  
Spokane, Portland & Seattle, \$50,000—50 per cent; and \$150,996—40 per cent.  
Terminal Association of St. Louis, \$1,800,000—55 per cent.  
Texas & New Orleans, \$28,699—40 per cent.  
Virginian Railway, \$275,700—40 per cent.

In its report for the period from December 18 through December 30, D.P.A. showed that certificates then approved included these:

Louisville & Nashville, \$155,000—55 per cent.  
Texas & Pacific, \$153,000—40 per cent.

In its report for the period from December 31 through January 14, D.P.A. showed that certificates then approved included those listed below:

Atchafalaya, Topeka & Santa Fe, \$8,160,000, 70 per cent.

(Continued on page 59)



## ORGANIZATIONS

V. L. Hitzfeld, general passenger agent of the Chicago, Milwaukee, St. Paul & Pacific, has been elected chairman of the **Chicago General Agents Association**, a group comprised of passenger traffic supervisors of the Chicago area.

The **Chicago Special Agents and Police Association** has elected R. W. Biggerstaff, inspector of investigation of the Grand Trunk Western, as president.

The **Niagara Frontier Superintendents' Association** has elected to its chairmanship for the ensuing year E. P. Adams, superintendent, Pennsylvania. G. W. Maxwell, superintendent, New York Central, was elected vice-chairman.

The **Eastern Car Foreman's Association** has elected the following officers for the current year: President, George J. Flanagan, assistant superintendent equipment, New York Central, New York; vice-presidents, J. F. Swafford, assistant master mechanic, Washington Terminal Company, Washington, D.C., and H. E. Whitener, superintendent motive power and rolling equipment, Central of New Jersey, Elizabethport, N.J.; and secretary-treasurer, Wilson Dizard, American Car & Foundry Co., New York.

W. H. Ott, Jr., general traffic manager of the Kraft Foods Company, has been elected president of the **Illinois Territory Industrial Traffic League**. Other officers elected are: Vice-presidents, R. V. Craig, general traffic manager, Allied Mills, Inc., and R. C. Berrey, general traffic manager, U.S. Gypsum Company; and secretary-treasurer, A. J. Maurer, assistant traffic director, Chicago Association of Commerce & Industry.

The **South Bend (Ind.) Transportation Club** has elected the following officers to serve during 1953-54: President, Downie C. Pate, New Jersey, Indiana & Illinois (Wabash); vice-presidents, Joseph A. Illes, Bendix Home Appliance Division, Avco Manufacturing Corporation, G. D. Land, TransAmerican Freight Lines, and Willard H. Harmon, NJ&I; and secretary-treasurer, Leotis H. Cochran, Oliver Corporation.

The **Railroad Joint Facility Club of Chicago** has elected A. E. Seidler, joint facility accountant of the Indiana Harbor Belt, as chairman for 1953. J. F. Bruckner, Jr., joint facility examiner of the Pennsylvania, has been elected secretary for a similar term.

J. A. Quinlan, vice-president of the St. Regis Paper Company, New York, has been appointed chairman of the

traffic committee of the **American Paper and Pulp Association**, to succeed W. L. Thornton, Jr., general traffic manager, Kimberly-Clark Corporation, Neenah, Wis., who has served for the past three years.

The **Pacific Northwest Advisory Board** will hold its 85th regular meeting in the Multnomah Hotel, Portland, Ore., on March 18. Robert S. Henry, vice-president, public relations department, of the Association of American Railroads, will be guest speaker. The meeting will also be the annual meeting of the board, with election of new officers. Committees of the board will meet March 17 in the same hotel.

The **American Association of Traveling Passenger Agents** has elected the following officers for the current year: President, J. C. Hughey, assistant general passenger agent, Atlantic Coast Line, Tampa, Fla.; vice-president, W. C. Widenhoefer, district passenger agent, Northern Pacific, Helena, Mont., and secretary-treasurer, C. A. Melin, Cleveland.

Current research and opportunities in the mining and use of coal will be discussed at the annual meeting of **Bituminous Coal Research, Inc.**, to be held at the Netherland Plaza Hotel, Cincinnati, March 6. Among the speakers will be Walter J. Tuohy, president of the Chesapeake & Ohio and a member of B.C.R.'s Locomotive Development and Plan of Action Committees, and John I. Yellott, director of research of the gas-turbine program. Mr. Tuohy will discuss advances made during the past year on development of coal-fired gas turbines under B.C.R.'s Locomotive Development Program. Mr. Yellott will cite opportunities in application of coal-fired gas turbines. Dr. E. R. Weidlein, president of Mellon Institute, will speak at the annual luncheon for member company executives of B.C.R., on "Research to Build Markets and Profits." The first annual B.C.R. award for outstanding leadership on behalf of industry-sponsored coal research will be made at the meeting.

The next meeting of the **Air Pollution Control Association of America** will be held in Baltimore May 25-28. Among those preparing discussions for the meeting are L. L. Rodgers, assistant road foreman of engines, Richmond, Fredericksburg & Potomac ("What Railroad Management Is Doing for Air Pollution Control"), and G. W. Meredith, assistant master mechanic, Norfolk & Western ("Performance of Coal-Burning Steam Locomotives"). The association has begun monthly publication of "APCA News," which will offer news in the field of air purification. "Air Repair," the association's quarterly journal, will be restricted to publication of technical articles.

H. B. Buchholz, general agent,

freight department, Chicago & North Western, has been elected president of the **Milwaukee Traffic Club**. Other newly elected officers include R. H. Heilman, traffic manager, A. O. Smith Corporation, T. A. Dodge, executive assistant to vice-president, Union Refrigerator Transit Company, and G. C. Loeser, traffic department, Joseph Schlitz Brewing Company, vice-presidents; and R. W. Brushe, traffic manager, Pressed Steel Tank Company, secretary and treasurer.

The **Northwestern Claim Conference** of the Freight Claim Division of the Association of American Railroads, at its annual meeting in Minneapolis on February 4, elected J. H. Andrews as chairman for the year. Mr. Andrews is general freight claim agent of the Chicago, Milwaukee, St. Paul & Pacific at Chicago. W. C. Olander, freight claim agent of the Minneapolis & St. Louis at Minneapolis, was named vice-chairman; while E. C. Lewis, former assistant freight claim agent of the Great Northern at St. Paul, was re-elected secretary-treasurer.

## CONSTRUCTION

**Atchison, Topeka & Santa Fe.**—Alterations and replacements on first and second floors of the motive power building at Topeka, Kan., will be carried out by J. A. Lundgren & Son, of Topeka. A contract for furnishing and erecting a prefabricated steel building for car repair facilities at Argentine, Kan., has been awarded to the Butler Manufacturing Company of Kansas City. The building will measure 72 ft. by 600 ft., and will be placed on foundations built by another contractor.

**Illinois Central.**—This road has asked the I.C.C. for authority to construct 5,640 feet of new trackage to serve the Paddy's Run plant of the Louisville, Ky., Gas & Electric Co. The plant, a large user of coal, is served at present by the Kentucky & Indiana Terminal. Cost of the new switching lead track would be paid from current funds.

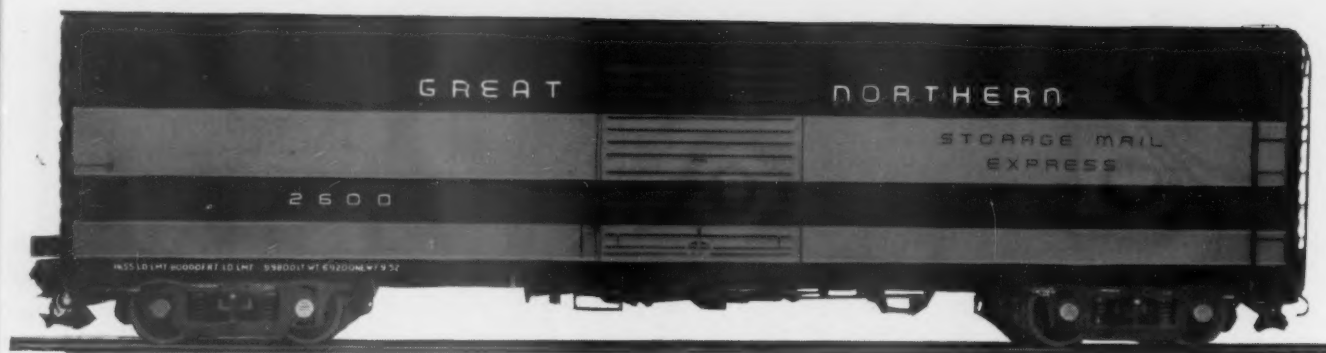
**Missouri Pacific.**—This road has applied to the I.C.C. for authority to construct a 1.49-mile line at Little Rock, Ark. The line would serve a new 35-acre industrial area in the southeastern part of the city. Cost of the segment would be paid from current funds.

**New York Central.**—This road contemplates extensive work in bringing its maintenance up to date, William White, president, said at a recent press luncheon in New York. The program will involve, Mr. White added, increased mechanization of maintenance procedures.



The **NEWEST** and **LATEST**

*Feature* **COMMONWEALTH**



*Built by Great Northern Railway*



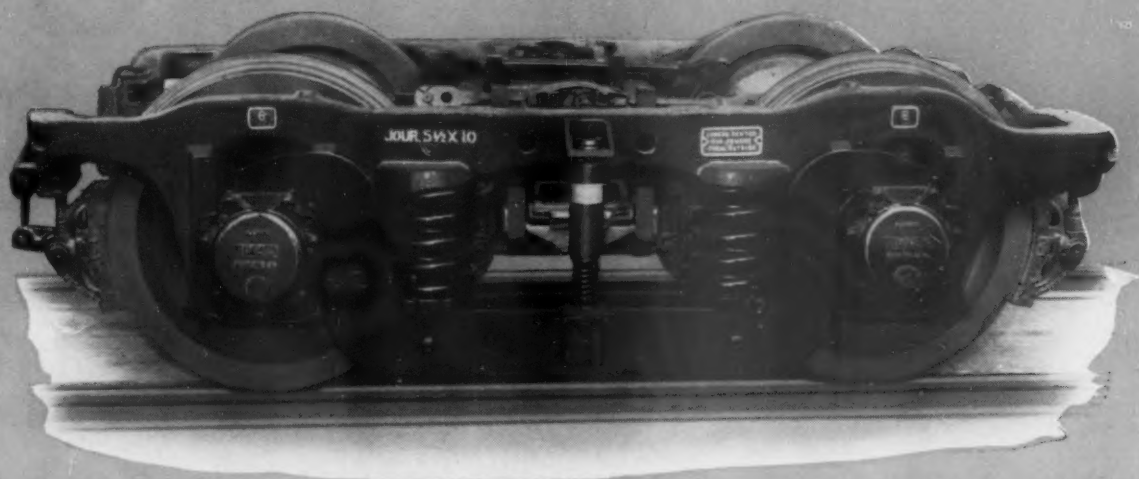
*Built by Pacific Car and Foundry Co.*



**GENERAL STEEL**

# Express Refrigerator and Express Cars

## ***HIGH SPEED* TRUCKS**



*Commonwealth BX Truck equipped with Houdaille friction snubbers.*

**C**OMMONWEALTH Express Car Trucks are especially designed to meet the demand for a safe, smoothly operating light weight truck for cars in high speed passenger train service.

Equalizers, swing motion, coil springs and friction snubbers combine to absorb rail shocks and provide smooth, safe riding of light or loaded cars, protecting car contents and minimizing damage claims. Upkeep costs of cars and track structure are materially reduced.

The rigid one piece cast steel truck frames with integral cross transoms and pedestals, insure axles being in tram at all times. Trucks are equipped with clasp brakes and bolster locking center pins.

COMMONWEALTH BX Trucks are approved for all types of Express-Refrigerator, Box-Express and Merchandise Cars operating in all classes of passenger trains. For true economy and dependability, specify COMMONWEALTH Trucks.

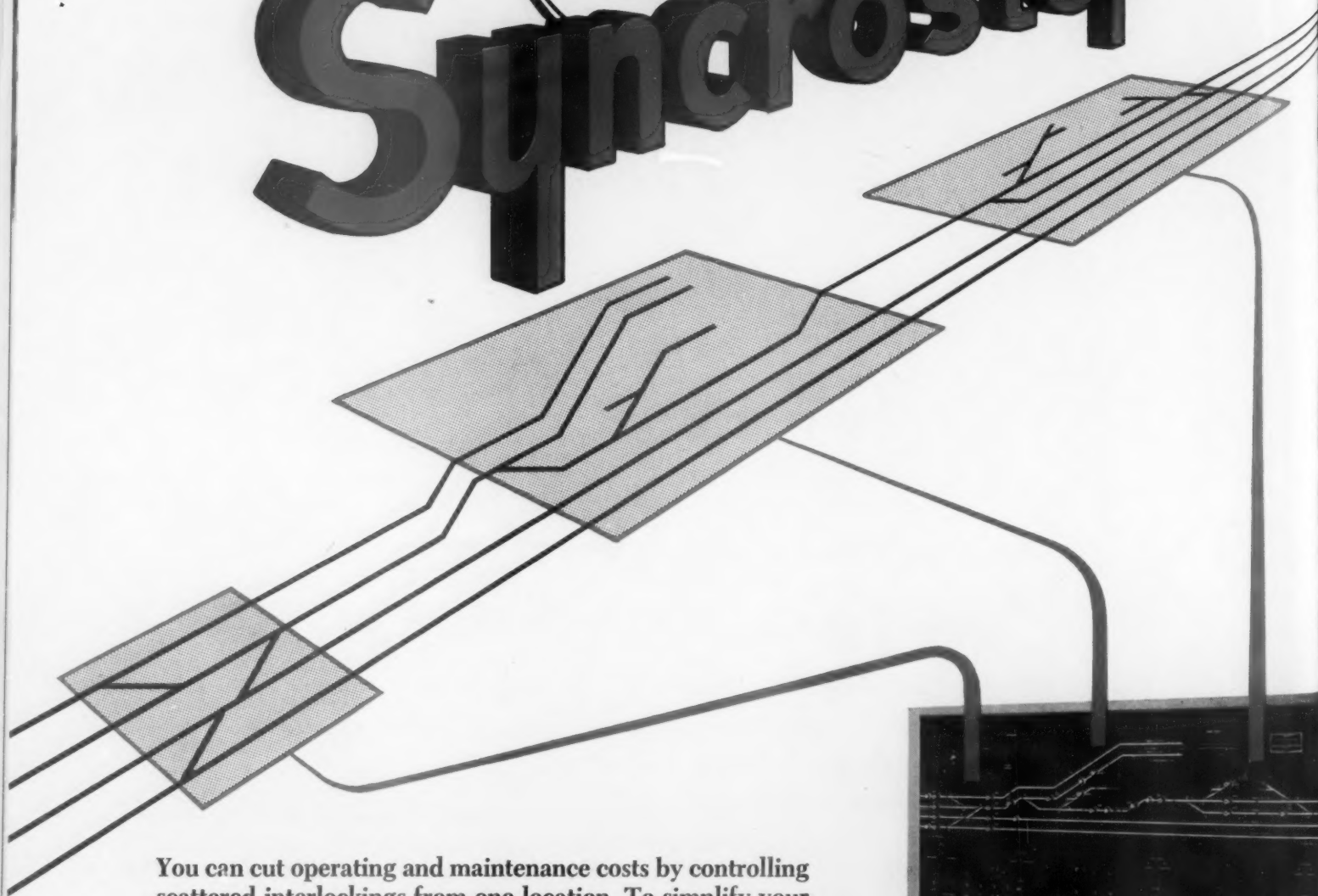
# CASTINGS

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### Combination Hand-Truck And Trailer

A 4,000-lb. capacity combination hand-truck and trailer has been announced by the Mercury Manufacturing Company, Chicago. This unit is designed to handle palletized loads. Hand operated brakes whose shoes bear on the two rear wheels are applied by depressing the lever located on the caster-end pipe rack. The trailer is equipped with safety couplers at each end.

Wheels are roller-bearing mounted, and tires are molded-on solid rubber type. The standard model of this equipment is 36 in. wide and 62 in. long; the flush deck is 13 in. from the floor.

### High Flash Point Emulsion Cleaner

Pennsalt EC-54, a new emulsion cleaner, has been developed for metal cleaning by the Pennsylvania Salt Manufacturing Company, Philadelphia. This emulsifiable liquid has a flash point of 260 deg. F., a fire point of 300 deg. F., and 95 per cent boils within a range of 500 deg. to 600 deg. F. Therefore, it will not boil off or evaporate when used at high temperatures in a power washing unit. Its flash point is well above temperatures normally used in emulsion spray cleaning. The advantages claimed because of these characteristics are that there is negligible loss through evaporation; no solvent vapors condense on plating tanks; the fire hazard is minimized during shut-downs or in drains or sewers, and the cleaning solution can be used at higher temperatures to assure maximum detergency on high melting-point soils.

Ferrous parts cleaned with EC-54 are protected against in-plant rusting for a period of one to six weeks, or longer by the use of stronger solutions and by the omission of the rinse following the cleaning stage.

The product is said not to tarnish

aluminum, magnesium, brass or zinc. One cleaning unit can be used to process all metals in a given plant.

### All-Metal Panels For Electro-Motive Diesels

The Electro-Motive Division of General Motors Corporation, La Grange, Ill., is now producing for use on passenger and freight locomotive units a new all-metal side panel which is said to provide greater strength and durability at substantially less cost. The new panels have successfully passed extensive service tests and are now ready for application to all of this manufacturer's road diesel units, new or old.

The all-metal panels are made in standard sizes as required up to 4 ft. wide by about 12 ft. long and 3/8 in. thick.

Each panel consists of a 20-gage steel outer sheet permanently bonded to a corrugated steel inner sheet of the same weight, with a narrow 20-gage steel binding strip applied around all four edges. The pitch of corrugations in the stiffener sheet is ten per foot.

The panel is held in place on the locomotive side with the same battens used in previous construction.

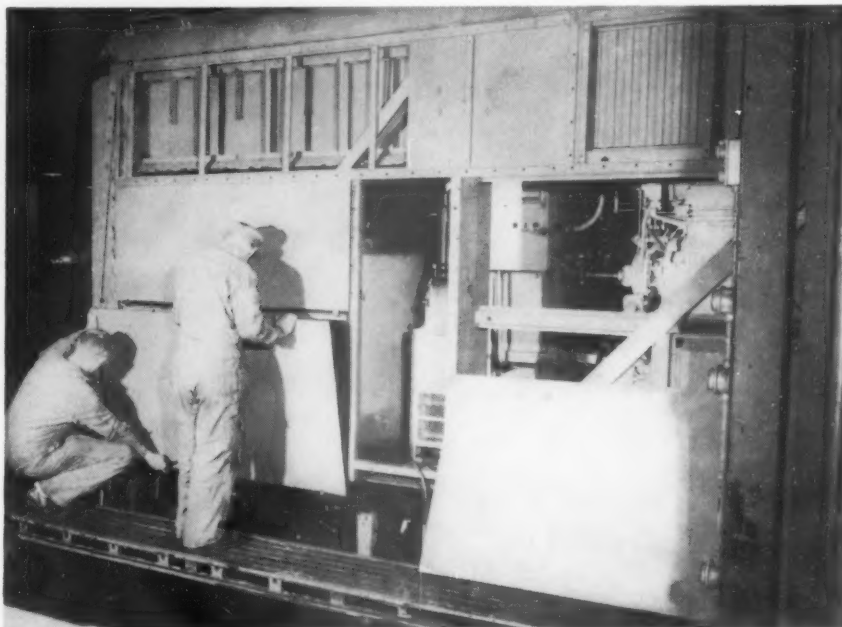
The bonding method used has been extensively applied in recent years by the aviation industry. It employs a special Buna-N synthetic rubber-base heat-setting adhesive which bonds the



A sash set in the all-metal panel as seen from inside the locomotive.

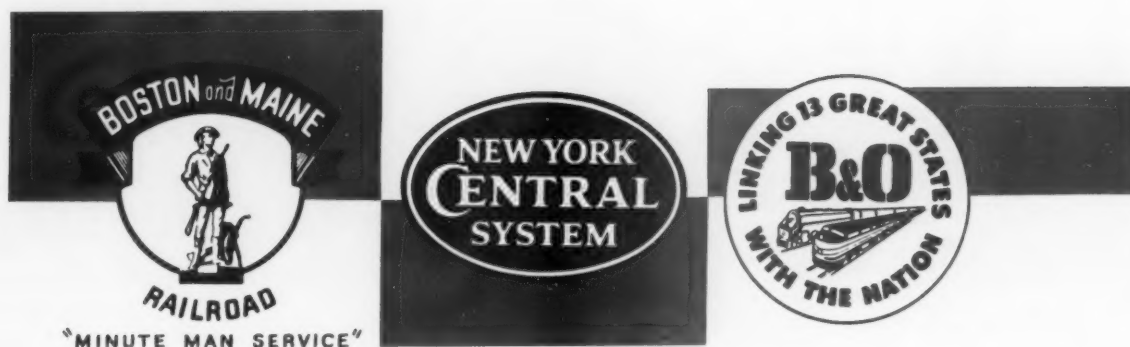
panel into an integral unit, strong, light in weight and easily handled. All parts of the panel are united at one time under a combination of heat and pressure with automatic control of the time cycle.

The new construction is said to resist temperatures from -60 to 450 deg. F., to prevent rust and corrosion on interior surfaces, and to have a probable service life of 25 years under normal conditions. All-metal panels are turned out by the new process at Electro-Motive on a modern conveyORIZED assembly line at the rate of one complete panel, ready to install, every 4 min.



Application of new all-metal side panels to an Electro-Motive road diesel.





## MORE RE-ORDERS FOR RDC

● The way railroads which already own and operate Budd RDC's keep adding to their fleets, testifies to the car's ability to perform, to attract traffic, and to reduce expense.

Within a single recent month the Boston & Maine, which already had three RDC's, ordered three more; the New York Central, with eighteen RDC's, ordered two more; the Baltimore & Ohio, with two RDC's, ordered three more.

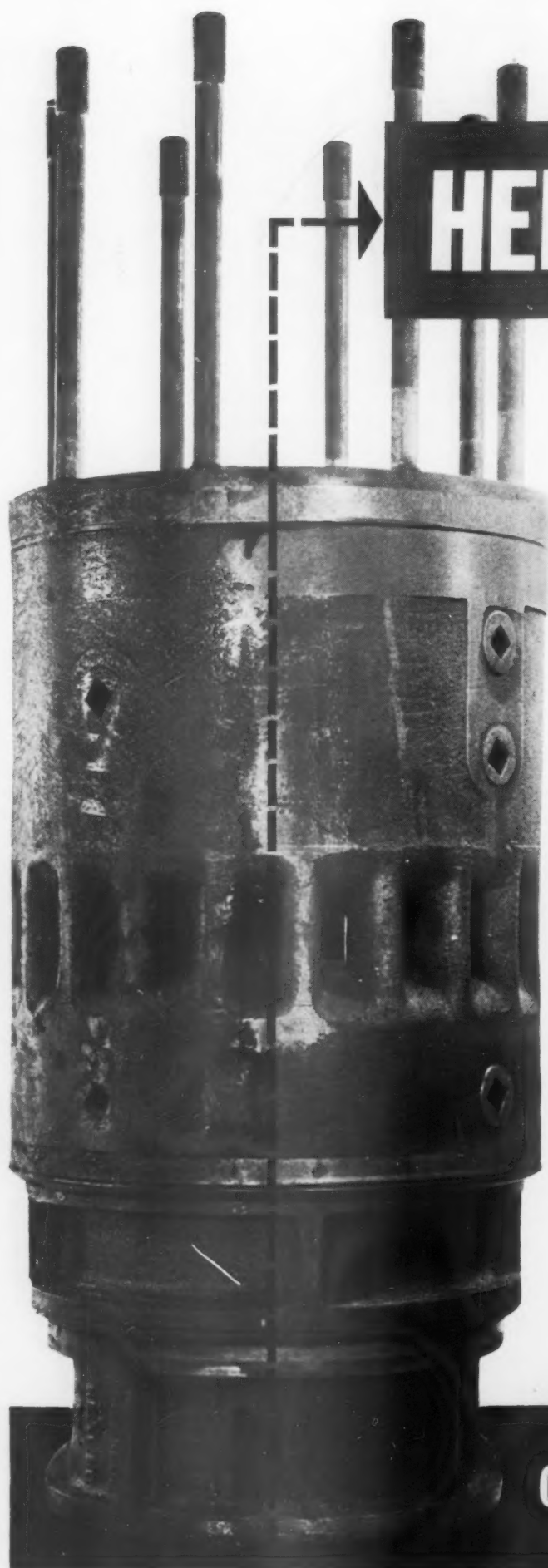
If you would like to "sample" RDC on your railroad, we will loan you one without fee.

The Budd Company, Philadelphia 15.



PIONEERS IN BETTER TRANSPORTATION





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**L**OOK closely at this cylinder liner. The right half of it was cleaned with an Oakite material specially designed for the fast removal of carbonized oil and other tenacious deposits. In the photograph you can **SEE** the effectiveness of Oakite cleaning . . . the better job your road can expect to obtain when cleaning liners, pistons and other Diesel engine parts with Oakite materials and that enable you to handle this work easily, economically. We will be glad to demonstrate, in your own Diesel shop . . . or send you more details on request.

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# NOW! Get the Book That Protects the Money You Invest in Diesels **DIESEL-ELECTRIC LOCOMOTIVE HANDBOOK**

By **GEORGE F. MCGOWAN** Technical Consultant

SEND TODAY for this great new book! Packed with photos and diagrams, it brings you up-to-the-minute facts — the latest available on diesel-electric locomotives and equipment.

Here is everything you need and want to know—written from the viewpoints of the men in the cab and the shop—by an experienced railroad man—all checked and approved by the leading locomotive builders.

For your convenience this handbook is sold separately in two volumes: *Mechanical Equipment* and *Electrical Equipment*. Read the descriptions that follow and you'll agree: Here is essential information you cannot afford to be without!

## MECHANICAL EQUIPMENT

Everything necessary to complete understanding of diesel-electric locomotives is included—how diesel-electric locomotives are constructed, the reasons behind their design, proper operating methods, things that can go wrong with them, "trouble-shooting," and effective servicing and maintenance.

## GIVES YOU DETAILS OF EACH PART

Among the chapters are: The Development of the Diesel-Electric Locomotive; Fundamentals; Lubricating and Cooling; Fuel System—Fuel; Pistons, Piston Rings, Liners; Connecting Rods, Bearings, Crankshafts; Valves, Timing, Heads; Governors, The Steam Generator; The Air Compressor; and The Gas Turbine Locomotive.

## DESCRIBES LOCOMOTIVES BY MAKE

Separate chapters are devoted to accounts of diesel engines made by The American Locomotive Company, Baldwin Locomotive Company, Electric-Motive Diesel, Fairbanks, Morse & Company, and Lima-Hamilton Corporation. Each engine, its parts, and its non-electrical auxiliaries are described and illustrated in full detail.

## SOLVES JOB PROBLEMS FOR YOU

MECHANICAL EQUIPMENT provides you with the most modern information on diesel-electric locomotives and auxiliary equipment in clear, easy-to-understand language. If you have anything at all to do with operating, maintaining or servicing diesel-electric locomotives, you'll use

this book as a handbook to help you solve problems that you meet in your daily work, and as a reference to keep you on top of developments in this expanding field.

## ELECTRICAL EQUIPMENT

You get full descriptions of all major pieces of electrical equipment and all their parts; how they are constructed, how to operate them, how to take care of them and how to fix them if they go wrong.

There are chapters on: The Electric Generator; The Traction Motor; Exciters, Auxiliary Generators, Motor Blowers, Dynamic Braking; Batteries; and Contactors.

## DETAILS EQUIPMENT BY MAKE

The electrical and control equipment of the major builders: Alco-G.E., Electro-Motive Division, Lima-Westinghouse, Baldwin-Westinghouse, and Fairbanks, Morse-Westinghouse is completely analyzed in individual chapters.

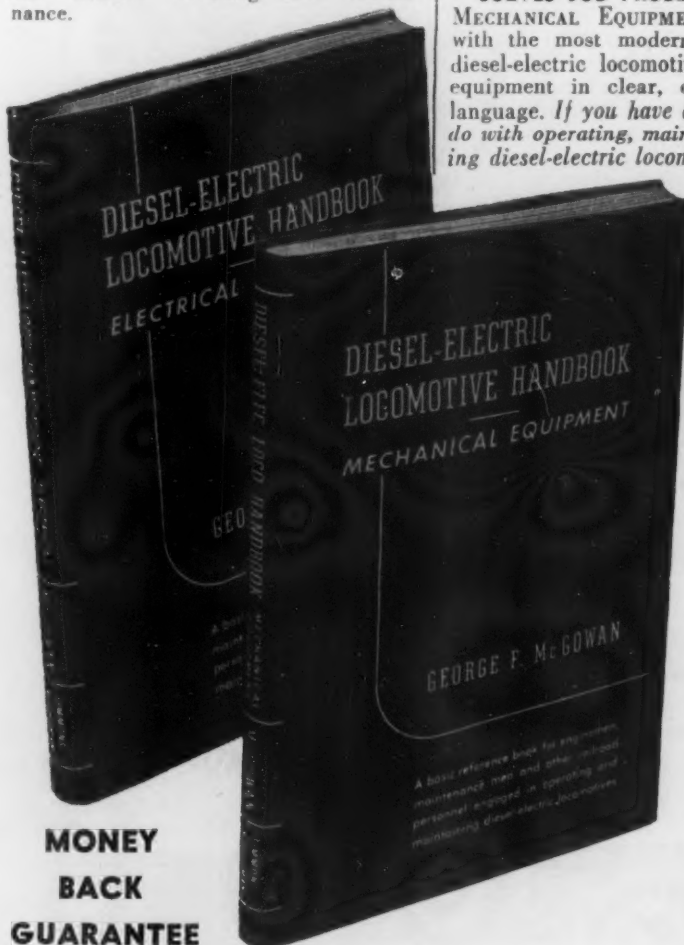
You need only a layman's knowledge of electricity to gain the utmost benefit from this book—because the subject is presented in practical language by an experienced railroad engineer.

## ANALYZES ELECTRICAL SET-UP

You learn why the electrical transmission has been adapted to the diesel locomotive; its advantages, disadvantages and limitations. You get a review of electrical fundamentals; definitions of terms and explanations of how to use the most common electrical formulas. Schematic wiring diagrams are explained and their special symbols identified.

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Yes, here is your opportunity to gain a complete understanding of the electrical equipment of today's diesel-electric locomotives, to learn how to handle, service and maintain the equipment.



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Enclosed find ..... for the book(s) checked below. I understand that you will ship them to me postpaid, and that if I am not completely satisfied I may return them any time within 10 days of receipt for a full refund of my money.

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2-23-53

# *Announcing* **BOWER-FRANKLIN** **roller bearing** **journal boxes** *—for freight cars*

The Bower Roller Bearing Company of Detroit and the Franklin Railway Supply Company of New York jointly announce a new roller bearing journal box for freight cars. The roller bearings for this Bower-Franklin box are being made by Bower. The boxes themselves are being manufactured by Franklin Balmar Corporation, a wholly-owned Franklin subsidiary. Sales and application engineering will be handled by Franklin Balmar.



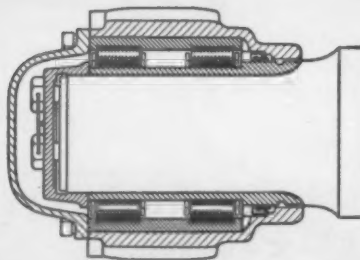
**FRANKLIN BALMAR CORPORATION**

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5001 North Wolcott Ave., Chicago 40

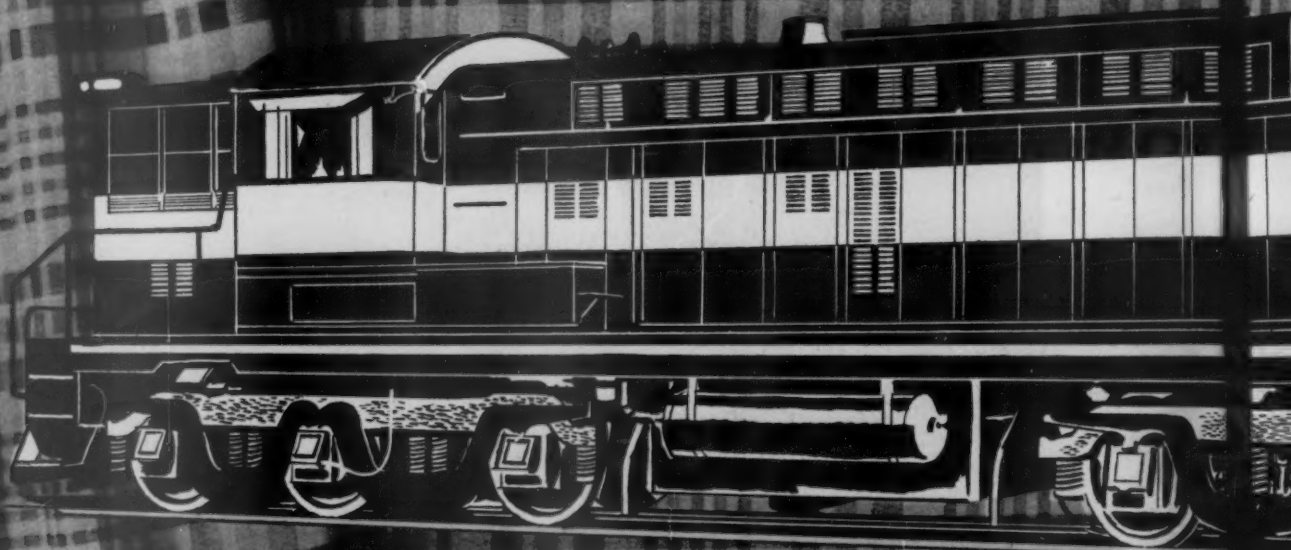




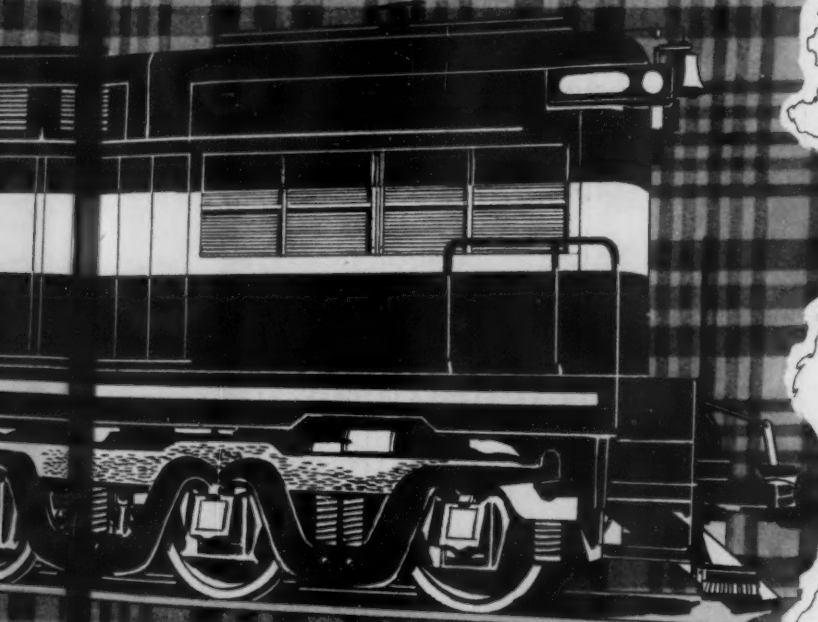
The Bower-Franklin journal box shown here is of the pedestal type. Simplicity of design is an important feature. The bearing, consisting of two rows of straight rolls running in single inner and outer races, permits free lateral. The sturdy retainer assures perfect alignment of rolls under all conditions. The housing completely surrounds and protects the bearing.



# BALDWIN'S



# S ARE THRIFTY



- Thrifty Baldwins handle extra-heavy tonnages.
- They give more miles per gallon of fuel oil.
- They consume less lube oil per gallon of fuel.
- With Humping Control, Thrifty Baldwins speed classification.
- Their superior dynamic braking means less wear and better control.
- They're so rugged, maintenance is lower and availability unsurpassed.



## **BALDWIN-Westinghouse**

**DIESEL-ELECTRIC LOCOMOTIVES**

*...they're thrifty!*



**REVENUES AND EXPENSES OF RAILWAYS**  
(Dollar figures are stated in thousands; i.e., with last three digits omitted)

(Dollar figures are stated in thousands; i.e., with last three digits omitted)

MONTH OF DECEMBER AND TWELVE MONTHS OF CALENDAR YEAR 1952

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# REVENUES AND EXPENSES OF RAILWAYS

(Dollar figures are stated in thousands; i.e., with last three digits omitted)  
MONTH OF DECEMBER AND TWELVE MONTHS OF CALENDAR YEAR 1952

Name of Road	Average miles operated during period	Operating Revenues				Operating Expenses				Operating ratio 1952	Net from railway operation		Net railway income 1952
		Freight	Pass.	Total (inc. misc.)	Deprec. and Retire- ments	Total	Retire- ments	Total	Traffic portion	Total	1951	Railway tax operating accruals	
Colorado & Southern.....	Dec. 12 mos.	1,193	77	1,270	150	1,420	40	1,460	27	1,487	73.0	251	108
Ft. Worth & Denver.....	Dec. 12 mos.	1,365	971	2,336	1,968	4,304	253	4,557	344	5,866	69.1	5,035	2,259
Colorado & Wyoming.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	57	3,449	62.4	314	437
Columbus & Greenville.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	664	8,436	69.7	7,280	3,480
Delaware, Lackawanna & Western.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Delaware, Lackawanna & Western.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Denver & Rio Grande Western.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Detroit & Mackinac.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Detroit & Toledo Shore Line.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Detroit, Toledo & Ironton.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Duluth, Missabe & Iron Range.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Duluth, South Shore & Atlantic.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Duluth, Winnipeg & Pacific.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Elgin, Joliet & Eastern.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Erie.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Florida East Coast.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Georgia Railroad.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Georgia & Florida.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Grand Trunk Western.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Canadian Natl. Lines in New Engl. Dec.	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Great Northern.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Green Bay & Western.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Gulf, Mobile & Ohio.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Illinois Central.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Illinois Terminal.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Kansas City Southern.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Kansas, Oklahoma & Gulf.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Lake Superior & Ishpeming.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Lehigh & Hudson River.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Lehigh & New England.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Lehigh Valley.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315
Long Island.....	Dec. 12 mos.	1,038	1,965	3,003	352	3,355	37	3,392	15	1,137	65.2	491	315



# REVENUES AND EXPENSES OF RAILWAYS

(Dollar figures are stated in thousands; i.e., with last three digits omitted)

MONTH OF DECEMBER AND TWELVE MONTHS OF CALENDAR YEAR 1952

Average mileage operated during period	Name of Road	Operating Revenues				Operating Expenses				Operating ratio 1952-1951	Net from railway operation	Railway tax accruals 1952	Net railway operating income 1952
		Total (inc. misc.)				Maint. Way and Structures Deprec. and							
		Freight	Pass.	1952	1951	Total	Retire- ments	1952	Total				
Louisiana & Arkansas.....	Dec. 756	2,144	80	2,315	392	335	524	90	554	62.7	864	293	530
.....	12 mos.	24,700	750	26,462	24,316	4,439	4,135	253	3,338	62.3	9,977	4,237	3,093
Louisville & Nashville.....	Dec. 4,738	17,722	1,432	20,854	20,604	2,519	2,754	475	4,176	68.5	6,359	3,715	3,926
.....	12 mos.	4,758	196,703	13,798	226,724	226,475	32,393	31,746	2,990	76.4	53,476	33,859	24,340
Maine Central.....	Dec. 945	1,962	145	2,285	2,374	460	569	392	72	76.5	537	321	238
.....	12 mos.	960	23,261	1,565	26,281	5,377	5,169	4,571	825	76.0	6,192	3,180	2,548
Midland Valley.....	Dec. 334	154	.....	156	178	56	36	5	13	99.8	156	16	-27
.....	12 mos.	334	2,048	.....	2,084	2,104	585	82	232	82.2	371	185	69
Minneapolis & St. Louis.....	Dec. 1,397	1,927	7	2,024	1,716	389	133	107	160	70.4	599	271	282
.....	12 mos.	1,403	21,953	84	22,901	21,894	3,663	3,066	890	75.2	5,583	2,861	1,698
Minn., St. Paul & Sault Ste. Marie.....	Dec. 3,223	2,442	84	2,767	2,810	4,007	3,693	103	724	103.9	362	-67	-181
.....	12 mos.	3,223	38,548	1,106	42,170	41,486	8,544	7,727	1,143	86.3	5,772	3,599	1,910
Mississippi Central.....	Dec. 148	238	.....	241	245	56	44	3	31	72.7	66	34	17
.....	12 mos.	148	2,651	.....	2,693	2,656	609	529	352	75.0	674	342	205
Missouri-Illinois.....	Dec. 172	514	.....	518	380	70	83	4	73	74.3	225	149	85
.....	12 mos.	172	5,473	.....	5,524	5,254	975	834	103	74.9	1,991	1,208	875
Missouri-Kansas-Texas Lines.....	Dec. 3,242	6,206	393	7,312	7,419	1,046	892	45	819	72.0	1,910	362	1,094
.....	12 mos.	3,242	73,574	4,316	85,115	78,828	12,358	11,611	1,475	72.0	23,799	9,367	10,741
Missouri Pacific.....	Dec. 6,950	18,029	1,287	21,599	22,264	4,711	4,153	266	3,926	80.7	4,173	1,286	2,119
.....	12 mos.	6,949	211,636	12,591	248,491	239,346	43,246	46,755	46,491	77.2	56,624	21,588	28,052
International-Great Northern.....	Dec. 1,104	2,909	219	3,414	3,297	801	623	39	559	83.9	550	66	336
.....	12 mos.	1,104	32,551	2,321	38,204	38,252	7,914	6,588	1,217	82.7	6,621	1,498	3,491
Gulf Coast Lines.....	Dec. 1,723	3,582	100	3,973	3,655	953	615	98	561	72.1	1,052	286	513
.....	12 mos.	1,724	40,420	1,112	44,339	43,775	9,376	8,646	504	74.5	11,451	3,864	4,498
Monongahela.....	Dec. 178	560	.....	565	710	78	91	13	76	64.0	203	39	28
.....	12 mos.	178	7,548	.....	7,610	9,006	1,044	1,089	91	61.0	2,674	382	611
Montour.....	Dec. 51	194	.....	195	197	27	18	1	77	98.8	192	2	41
.....	12 mos.	51	2,322	.....	2,328	2,697	277	329	11	95.2	957	99	494
Nashville, Chatt. & St. Louis.....	Dec. 1,032	2,926	179	3,691	3,386	465	435	67	455	63.5	67.9	1,348	669
.....	12 mos.	1,032	34,676	1,872	41,228	38,476	6,870	6,691	5,545	70.5	12,158	6,092	6,153
New York Central.....	Dec. 10,718	53,991	12,553	75,686	68,003	12,029	7,609	8,998	1,030	81.3	14,187	5,004	8,894
.....	12 mos.	10,714	581,234	124,344	806,952	117,272	107,313	159,459	12,812	83.5	125,000	62,027	49,817
Pittsburgh & Lake Erie.....	Dec. 221	4,132	93	4,502	3,912	105	288	258	78	16.0	1,717	1,208	3,685
.....	12 mos.	221	42,388	913	45,845	40,020	5,350	680	872	81.3	8,588	7,851	10,527
New York, Chicago & St. Louis.....	Dec. 2,184	13,637	203	14,321	13,153	1,300	1,820	334	341	72.2	4,715	2,451	1,877
.....	12 mos.	2,185	154,944	2,085	162,727	160,706	18,663	16,603	3,963	67.5	52,933	27,067	22,766
New York, New Haven & Hartford.....	Dec. 1,792	8,422	4,889	15,029	15,668	2,614	1,991	420	2,048	79.7	3,045	397	1,315
.....	12 mos.	1,793	93,530	51,677	163,420	159,105	25,172	23,801	4,486	80.0	33,118	11,679	10,633
New York Connecting.....	Dec. 21	448	.....	488	1,032	82	51	20	.....	14.2	265	88	213
.....	12 mos.	21	3,742	.....	4,004	3,967	1,144	309	222	61.0	1,592	987	742
New York, Ontario & Western.....	Dec. 541	526	.....	543	541	93	107	86	23	92.9	42	47	-63
.....	12 mos.	541	6,756	61	7,047	7,259	988	1,037	273	89.0	776	440	-433
New York, Susquehanna & Western.....	Dec. 120	445	43	518	434	56	63	9	67	83.0	157	30	88
.....	12 mos.	120	4,935	464	5,693	5,416	686	70	719	74.9	1,428	373	597
Norfolk & Western.....	Dec. 2,135	14,712	566	16,121	18,156	428	2,579	2,352	303	63.6	4,611	2,993	2,709
.....	12 mos.	2,135	180,745	5,478	195,651	206,595	28,716	40,203	39,072	70.8	57,030	28,547	29,956
Norfolk Southern.....	Dec. 620	975	.....	996	1,017	453	195	160	216	112.3	80.7	-122	56
.....	12 mos.	641	11,511	.....	11,699	11,613	2,660	2,190	1,457	80.1	2,332	1,155	621
Northern Pacific.....	Dec. 6,881	13,650	715	15,951	15,977	2,469	2,158	327	3,063	81.0	3,024	2,358	771
.....	12 mos.	6,883	156,552	7,149	177,869	173,748	29,108	27,144	3,778	80.5	34,617	22,549	15,425
Northwestern Pacific.....	Dec. 331	889	5	928	810	320	259	22	100	97.6	-40	Cr	163
.....	12 mos.	331	12,774	77	13,253	11,591	3,251	2,830	66	80.1	2,974	1,404	457
Oklahoma City-Ada-Atoka.....	Dec. 132	80	.....	81	98	30	18	7	2	76.9	83.9	19	-13
.....	12 mos.	132	1,115	.....	1,124	1,189	274	266	54	59.3	457	230	90
Pennsylvania.....	Dec. 10,089	66,407	14,160	90,837	93,024	9,628	9,436	2,978	762	88.2	10,691	6,630	2,063
.....	12 mos.	10,117	767,359	156,316	1,028,750	1,044,387	128,795	127,691	15,209	84.2	162,864	69,729	74,930
Pennsylvania-Reading Seashore Lines.....	Dec. 364	661	120	809	760	277	329	17	93	131.7	1,000	133	-441
.....	12 mos.	364	7,496	2,283	10,149	10,535	2,614	2,700	1,175	111.1	1,126	1,460	-4,167



# REVENUES AND EXPENSES OF RAILWAYS

(Dollar figures are stated in thousands; i.e., with last three digits omitted)  
MONTH OF DECEMBER AND TWELVE MONTHS OF CALENDAR YEAR 1952

Average miles operated during period	Name of Road	Operating Revenues				Operating Expenses				Net from railway operation	Net railway operating income 1952	Net railway operating income 1951						
		Freight		Pass.		Total (inc. misc.)		Total (inc. misc.)					Total 1952	Total 1951	Trans- portation	Traffic	Retire- ments	Deprec.
		1952	1951	1952	1951	1952	1951	1952	1951									
97	Pittsburg & Shawmut	181	174	23	27	204	201	204	201	405	105.8	37						
132	Pittsburg & West Virginia	2,238	2,366	430	405	2,668	2,771	2,668	2,771	870	77.3	543						
132	Reading	8,387	8,510	127	105	8,514	8,615	8,514	8,615	1,307	82.1	96						
1,321	Richmond, Fredericksburg & Potomac	116,810	117,432	1,735	1,614	118,545	119,046	118,545	119,046	29,802	83.6	1,301						
118	Rutland	1,271	1,380	3,025	299	4,296	3,679	4,296	3,679	917	77.4	13,319						
397	Sacramento Northern	4,552	4,415	84	74	4,636	4,489	4,636	4,489	10,057	61.4	629						
264	St. Louis-San Francisco	3,340	3,447	801	687	4,041	4,134	4,041	4,134	33,106	105.7	3,317						
4,601	St. Louis Southwestern Lines	10,044	12,025	1,400	1,493	11,444	13,513	11,444	13,513	3,983	66.9	2,003						
159	Seaboard Air Line	603	706	350	347	953	1,053	953	1,053	15,547	17.3	12,643						
159	Southern Ry.	5,063	5,514	4,795	621	9,858	10,335	9,858	10,335	59	59	26						
1,569	Texas & New Orleans	6,271	6,536	5,988	779	12,259	12,315	12,259	12,315	1,243	716	356						
1,569	Texas & Pacific	70,373	73,590	69,751	8,971	79,324	82,561	79,324	82,561	32,581	16,395	13,518						
4,139	Texas & Northern	1,653	1,388	1,399	1,167	3,047	2,565	3,047	2,565	82.0	70.9	3,838						
6,299	Texas & Pacific	133,259	152,119	149,337	25,422	258,596	277,556	258,596	277,556	11,211	72.8	19,185						
6,305	Texas & Pacific	230,713	262,289	248,483	34,482	264,965	286,965	264,965	286,965	18,102	59.0	4,787						
326	Texas & Pacific	1,610	1,859	1,999	76	3,469	3,834	3,469	3,834	69.3	73.2	27,947						
326	Texas & Pacific	16,980	19,738	19,958	2,720	22,708	22,678	22,708	22,678	1,149	61.4	420						
337	Texas & Pacific	4,012	4,468	3,820	4	7,832	4,468	7,832	4,468	1,024	43.8	1,248						
397	Texas & Pacific	668	82	905	100	750	905	750	905	29,488	94.2	6,529						
397	Texas & Pacific	7,379	982	1,485	1,641	2,607	2,626	2,607	2,626	5,515	60.3	741						
203	Texas & Pacific	1,121	56	1,239	3	1,448	205	1,448	205	448	35.6	193						
203	Texas & Pacific	1,165	676	12,621	13,296	16,999	1,717	16,999	1,717	6,778	69.7	3,835						
8,113	Texas & Pacific	38,135	45,593	36,038	5,425	43,563	9,165	43,563	9,165	33,551	79.2	5,106						
8,118	Texas & Pacific	468,238	551,859	509,022	62,562	530,790	672,312	530,790	672,312	104,586	75.1	58,996						
4,291	Texas & Pacific	11,316	13,022	11,213	2,262	13,529	15,235	13,529	15,235	18,185	73.9	45,382						
4,291	Texas & Pacific	129,980	148,500	138,649	22,938	151,928	20,776	151,928	20,776	104,296	71.0	13,587						
152	Texas & Pacific	182	1	201	93	294	27	294	27	194	66.7	36						
152	Texas & Pacific	2,720	13	2,897	715	3,612	267	3,612	267	1,833	66.6	498						
944	Texas & Pacific	1,976	1,162	30,922	30,823	32,798	31,985	32,798	31,985	1,848	73.4	268						
944	Texas & Pacific	2,477	3	509	448	957	71	957	71	19,885	64.3	5,608						
286	Texas & Pacific	5,145	40	5,495	5,234	6,543	784	6,543	784	362	71.0	420						
8	Texas & Pacific	1,308	40	5,495	5,234	6,543	784	6,543	784	4,057	73.8	496						
8	Texas & Pacific	1,208	...	1,399	66	1,399	113	1,399	113	42	30.4	200						
1,834	Texas & Pacific	6,482	447	7,704	840	8,249	8,544	8,249	8,544	2,309	61.7	1,011						
1,834	Texas & Pacific	71,845	4,690	83,626	77,567	88,315	82,123	88,315	82,123	56,704	67.8	9,910						
162	Texas & Pacific	272	287	273	93	565	376	565	376	91	73.2	7						
239	Texas & Pacific	696	...	707	462	1,158	1,116	1,158	1,116	365	62.2	285						
239	Texas & Pacific	7,096	...	7,118	6,681	13,789	541	13,789	541	440	60.8	100						
9,824	Texas & Pacific	40,111	3,652	40,021	44,720	43,633	48,740	43,633	48,740	36,031	73.5	782						
9,847	Texas & Pacific	438,729	39,604	520,221	505,198	73,697	65,912	73,697	65,912	389,844	74.9	3,413						
110	Texas & Pacific	206	...	206	195	401	2	401	2	145	70.1	10						
110	Texas & Pacific	1,567	1,420	1,420	271	1,833	54	1,833	54	1,591	101.5	285						
611	Texas & Pacific	3,472	2	3,581	4,240	325	554	325	554	2,082	58.1	45						
611	Texas & Pacific	42,911	23	44,055	47,410	5,426	707	5,426	707	2,659	62.7	9,028						
2,393	Texas & Pacific	8,771	499	10,184	9,871	11,675	10,742	11,675	10,742	3,962	69.1	1,978						
2,393	Texas & Pacific	101,735	5,157	115,885	111,023	121,020	126,046	121,020	126,046	46,665	73.1	10,064						
294	Texas & Pacific	7,496	10	7,628	9,207	17,724	18,815	17,724	18,815	3,259	68.9	834						
831	Texas & Pacific	44,899	112	47,559	47,725	5,665	6,202	5,665	6,202	91	70.4	817						
831	Texas & Pacific	44,899	112	47,559	47,725	5,665	6,202	5,665	6,202	1,048	70.4	8,697						
1,193	Texas & Pacific	4,680	218	5,000	4,941	797	703	797	703	3,446	68.9	723						
1,193	Texas & Pacific	51,828	3,108	55,747	55,747	9,594	7,612	9,594	7,612	38,797	69.0	7,102						
1,046	Texas & Pacific	2,358	50	2,589	2,337	411	444	411	444	2,133	125	162						
1,046	Texas & Pacific	28,757	541	31,205	30,991	4,416	4,433	4,416	4,433	24,567	82.7	2,708						





## Boston & Albany Boosts Efficiency 25% With Help of Alco-GE Diesel-Electrics

The Boston & Albany district of the New York Central System has increased train speeds and operating efficiency 25% through dieselization. Alco-GE locomotives comprise 72% of this road's assigned motive power.

The B&A completed dieselization in Feb., 1951 as an answer to some of the steepest grades of the entire New York Central System. Paced by sturdy Alco-GE locomotives, this dieselization has meant, for example, a 60% increase in tonnage limits for the haul over the 1.65% Washington grade between Chester and North Adams Junction, Mass. Helpers service has been eliminated, and haulage time reduced.

Alco-GE diesel-electrics have proved their worth on every B & A haulage job . . . from rugged switching chores to the crack passenger trains and fast symbol freights . . . modern motive power that symbolizes the progressiveness of this fine railroad.

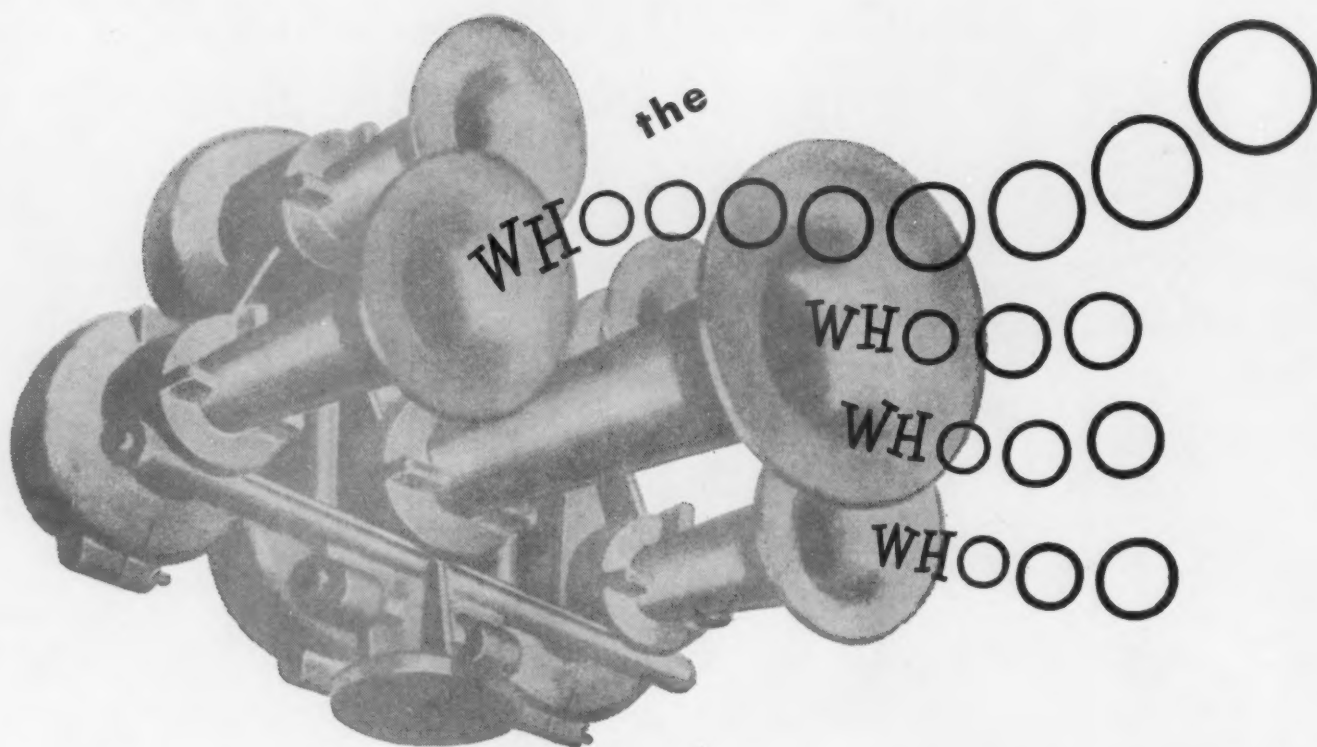
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**AMERICAN LOCOMOTIVE**  
**and**  
**GENERAL ELECTRIC**



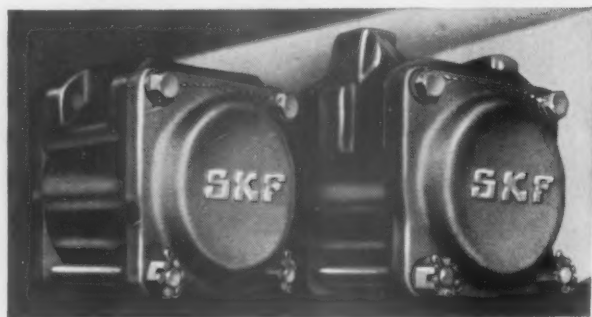




## CAN BE ELIMINATED!

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| <b>1st of EIGHT</b> | Maximum safety—eliminates hot box problems.             |
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Remember this name—**SKF FREIGHTER** Roller Bearings—when you're ready to equip your freight cars with anti-friction journals. Remember it because **SKF** has the world's broadest experience in the application of anti-friction to railroad passenger and freight cars and motive power.

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## **Benchmarks and Yardsticks**

ABOUT PEOPLE IN THE PUBLIC EYE there doesn't seem to be much agreement over just who is "humanitarian" and who is "selfish." Often the terms "democratic" or "liberal" are used as synonyms for "humanitarian"—and "conservative" or "reactionary" are frequently taken as synonymous with "selfish."

Sometimes this intermingling of terms may be accurate enough. For example, perhaps there are some "conservatives" who don't want the government spending money to relieve distress—not because they object to political invasion of the field of charity, but because they're just too stingy to want to give up anything to assuage the needs of others. Some of the railroads that have joined other businesses in going to the aid of private educational institutions are demonstrating that "conservative" (which the leaders of these railroads doubtless are) is not the same thing as "selfish."

On the other hand, it is a notorious fact that a lot of people who have classified themselves as "liberals" and "humanitarians"—are liberal and humanitarian only with other people's money, never with their own. Their obvious interest is not in giving but in getting credit for a liberality which is no part of their nature.

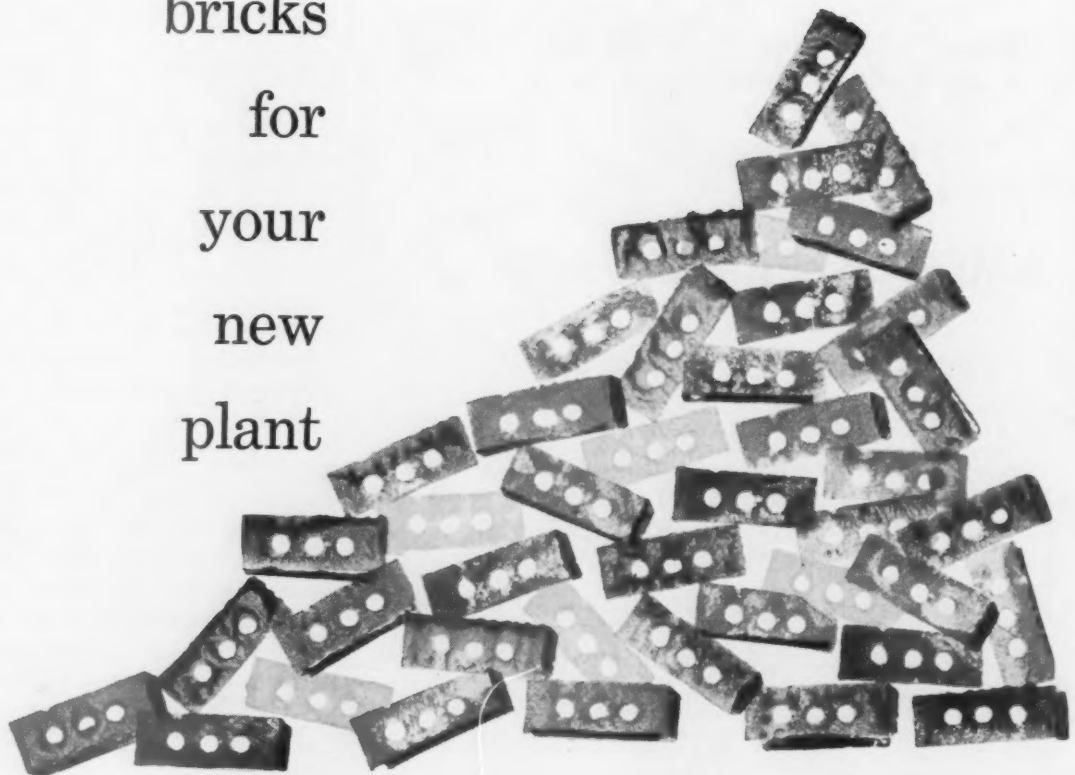
But the most questionable characters of all, of course, are those who are out after "public improvements" which are to their selfish advantage, but are not in favor of any contributions—public or private—to genuine charitable causes. The business world is shot through with such people—practically all of whom lay claim to the "conservative" label. The worst disservice any true "conservative"—who is also a humanitarian and a friend of freedom—can do to his cause is to let these phony "conservatives" go unchallenged in their claim to this classification.

Educational institutions, hospitals and other charitable enterprises are going to be supported in some manner which, in the long run, means out of the pockets of the people. There isn't any point in doing these things by compulsion—i.e., through government—if private citizens and businesses are willing to assume the burden without compulsion. One reason that school taxes are no higher than they are is the willingness of some people to send their children at their own expense to private or church schools.

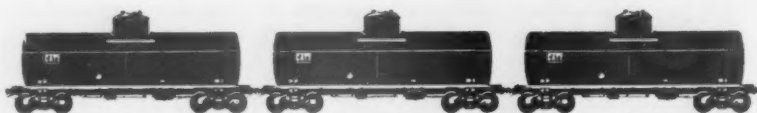
The same thing goes even more strongly for economic services—why pay for them coercively, through taxation, to the extent that experience shows that users are perfectly willing to pay tolls or other charges for the use of these services, rather than go without them?

J. G. L.

*before  
you  
start  
laying  
bricks  
for  
your  
new  
plant*



*see General American about GATX  
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## FREIGHT CAR PRODUCTION — CAN THE "VICIOUS CIRCLE" BE BROKEN?

The program of new freight-car building set up by the member railroads of the Association of American Railroads in the summer of 1950, following the outbreak of warfare in Korea, contemplated building up the ownership of the Class I roads to 1,850,000 cars. It called for a production of 10,000 new cars per month. Had this rate been reached at an early date and continued, the goal might well have been attained by the middle of this year. But no such production was realized for more than a month or two at a time. Total production of freight cars for domestic service in the United States was only 96,000 in 1951 and 78,000 in 1952.

In the meantime, the A.A.R., at a member meeting on November 21, 1952, renewed its adherence to the goal adopted in 1950 and, if the production of 10,000 new freight cars a month can be established by this fall, expects to attain it by the end of 1954. This implies retirements at the rate of about 5,000 cars a month.

### **Four Points on the Circle**

It is now the middle of the first quarter of 1953. With conditions as they are, is the prospect favorable for the attainment of its goal by the A.A.R.? An answer to this question requires a look at the factors affecting the ability to produce freight cars at or near a rate of 10,000 a month. Among these are plant capacity, labor supply, availability of materials, and adequate orders for cars from the railroads.

At no time since the A.A.R. program was first announced has there been any question as to the adequacy of plant facilities to meet any program of car production for which material and labor could be made avail-

able. The goal of 10,000 new cars per month, so far unattained, is little more than 70 per cent of the total production which could be turned out from the available facilities, builder and railroad, if sufficient material and an adequate force of workers were available.

If material for the program of 10,000 new cars per month were consistently available, an adequate supply of labor could probably be built up. If production declines and the rate becomes uncertain, forces reduced in conformity therewith may become progressively more difficult to build up. This will depend in part upon national policy with respect to military personnel.

### **Materials a Real Difficulty**

The real difficulty in attaining an output of 10,000 new freight cars per month has been the inability to secure sufficient material. Steel allocations during 1952 were made at the rate of 9,000 cars per month during the first quarter, 6,600 cars per month during the second quarter, and 5,600 a month during the third quarter. In his eighth quarterly report Henry H. Fowler, director of defense mobilization, said recently that the production of new freight cars "is expected to rise during the first half of 1953, approaching 9,000 per month by the end of June." This is a promising announcement. An element of uncertainty, however, is the possible expiration of the Controlled Materials Plan following the second quarter. Indeed, with the plan in effect, it has not always been possible to "cash" the allocation "check" for its full value in terms of steel in complete car sets.

It is difficult to appraise the situation with respect to freight-car orders, because it is affected, in turn, by the

## Next Week—Something New and Better

The *Railway Age* you'll get next week, March 2, will be unusually thin; and the next issue after that will be unusually thick.

We are, to be brief, inaugurating a new publishing policy for *Railway Age*—under which all issues will, as heretofore, present the week's railway news; but the longer "feature" articles will be concentrated in alternate weeks, instead of being spread out through all 52 issues. The March 2 issue will be the first of the "news only" variety. March 9 will be a "feature and news" issue, and so on thereafter.

This publishing program—followed by many successful industry weeklies—has the advantage to the reader that all "feature" issues can be made large enough to be representative of all departments of railroading, which is obviously not possible when such articles have to be spread throughout 52 issues

in a year. Readers of weekly publications in other industries have indicated their liking for this publishing program. We concluded that *Railway Age* readers should be given an opportunity to see how they like it.

There will be no decrease, and we expect an increase, in the total number of subjects we will be able to report upon; and—with the aid of one of the country's most competent authorities on magazine presentation and styling—we expect *Railway Age* will henceforth be more interesting, more convenient and more valuable to its readers than ever.

After you've seen a few issues under the new program, we'd appreciate word from you about how you like it.

We believe you will, of course; otherwise we'd not be making the experiment.—EDITOR

---

rate of production. On January 1, 1952, undelivered orders were on hand for 123,947 cars. On December 1, after months of low production, the backlog was down to 37,657. On February 1, 1953, it stood at 77,414. At no time in 1952 were orders placed for as many as 9,000 cars in any one month; the average for the year was less than 4,000 cars per month. Deliveries during this period have scarcely been an inducement for the railroads to go on piling up orders—deliveries of which were improbable in less than a year and a half or two years—certainly not when carloadings were declining.

Implementing the renewal of its adherence to the new-car acquirement program of 1950 the A.A.R., following its November 21 meeting, undertook a study to determine how many of what kind of cars were needed by each railroad in conformity with the program. The results of this study are now being made available to the railroads. To the extent that the railroads have been withholding orders awaiting this information, it should begin to be reflected in orders placed during February and March.

Other factors affecting prospective freight-car orders are the sharp drop in carloadings during December and January as compared with the same months a year earlier. Car surpluses began to build up in December and reached high values in January. While these surpluses are seasonal, the probability is that loadings will be off during the remainder of the year, as compared to 1952 as those in 1952 were off from those in 1951 (except as major strikes prevailed), with the prospect of even less severe shortages than were encountered last year.

Another factor which may tend to retard orders for new freight cars is uncertainty as to the continuation of the accelerated amortization provisions applicable to

defense facilities included in the tax law passed in September 1950. Assurance of a continuation of this provision would undoubtedly influence the release of freight-car orders. The uncertainty as to the permanency of the 15-per cent freight rate increase is also a deterrent to embarkation upon capital-expenditure projects.

The interplay of these forces has produced something in the nature of a vicious circle which, up to now, no one has been able or willing to break. Even though the present backlog of orders represents less than eight 10,000-car months, if steel can be secured by the car builders up to full allocations now in force, a break will have been made which will remove one powerful deterrent to the placing of orders by the railroads. But whatever else may be done will be futile in the end unless orders for freight cars are placed by the railroads in sufficient numbers to support the program.

---

"There is an endeavor in some quarters to make it appear that the railroads are engaged in a colossal conspiracy to drive other forms of transportation out of business. That is preposterous nonsense. Nothing could be farther from the truth. We in the railroad industry recognize that the American economy today requires the use of all forms of transportation. Everybody knows that. From a near-monopoly 30 years ago, transportation has become a fiercely competitive business, and we of the railroad industry say 'let competition reign,' but let it reign so that all forms have an equal opportunity, and then let the chips fall where they will. Is that unreasonable?"—From an address by William White, president, New York Central System, at a meeting of the Transportation Association of America.

This car inspector is in instant touch with his foreman and other inspectors, by a brand-new combination of radio and loudspeakers. His portable radio transmitter and batteries are in pouches carried at his belt, and he uses a "palm-size" microphone to report defects he finds on cars.



## ***Frisco's Radio-Loudspeaker System Allows . . . Faster Car Inspection***

***New combination use of radio with loudspeakers ends isolation of car inspectors***

A novel communication system for expediting the inspection of cars has been developed by the Frisco and installed in its Kansas Avenue yard at Springfield, Mo. Each car inspector is equipped with a lightweight portable radio transmitter set, which he carries with him as he makes his inspection of a train. If he finds a defect on a car, he speaks into his microphone, and his message is transmitted by radio to a fixed radio receiving station. His message is then reproduced on paging-type loudspeakers, 27 of which are on poles at various locations in the yard and five are in offices, one of these being in the car foreman's office.

The inspector's report of a defect is heard not only by the car foreman but also by other car inspectors working on the train and other yard employees who are interested. When the foreman hears an incoming report concerning a defect on a car, he speaks into the microphone on his desk, and his statement is broadcast on all the fixed loudspeakers in the other four offices and at the 27 poles throughout the yard.

Heretofore, when an inspector had completed his job he had to walk, perhaps, half the length of the yard to reach a telephone to report bad order cars to his foreman. Three or four inspectors usually work a train; therefore the foreman had to wait until all men had phoned in before he could call the yardmaster with the list of defective cars. With the new communication system, all the inspectors working on a train report defects as they find them, and then report when they finish their work on the train. Thus, the foreman can prepare his list for the yardmaster at once.

### ***Blue Flags—Plus***

The new system also has a safety feature. Should an inspector spot a defect that he can remedy himself, he simply announces over the microphone that he is working on a particular car or is between cars. Locomotive crews and other inspectors in the area hear the warning as it comes out over the paging horns. This eliminates





Car inspector's reports are picked up by central radio receiving station and are reproduced by 32 loudspeakers throughout the yard and offices.

the time wasted by an inspector in having to walk to the end of the train to set up a blue flag (indicating that a man may be between the cars) as he merely calls to one of the other inspectors near the end of the train asking him to set the flag in place. (He gets a reply that this has been done.)

#### **Inspector's Equipment**

The new system is also of considerable assistance to the inspectors in making a terminal test when the train is ready to move. An inspector, stationed in the caboose, merely uses his radio in connection with the paging loudspeakers throughout the yard to talk to the man in the cab of the locomotive, regardless of the length of the



Loudspeaker on car foreman's desk reproduces report from inspector, and the foreman's reply into his microphone is reproduced by the loudspeakers throughout the yard.

train, and thus inform the engineer when the gage in the caboose indicates the proper pressure for testing the brakes.

The radio used by each car inspector consists of a Type F-1 pocket transmitter, made by the General Railway Signal Company. This device is inclosed in a canvas pouch, and the batteries are in a second similar pouch, these two pouches being attached to the inspector's belt with a shoulder strap. A flexible wire connection extends from the radio set to the small palm-type microphone, which normally can be carried in the man's pocket.

These small radio transmitters operate on a separate frequency, so that they do not interfere with the other yard radio. The power output is 0.1 watt. A range of a mile is adequate, but the device has been tested to two miles. The dry-type batteries to operate the radio transmitter are carried in the second pouch at the inspector's belt. These batteries have no rated life, but the Frisco's experience is that the "A" battery lasts about 30 days and the "B" battery about 60 days.

At a central location in the yard there is a tower on which is mounted the antenna for the fixed radio receiver equipment. This equipment is the G.R.S. Type G and the antenna is the triple-skirt type furnished by the same company. The microphone which the car foreman uses to speak out over the yard loudspeakers is a Shure 520-SL, and the paging amplifier is a Bogen HO-125. The outdoor paging speakers are University PA-30 with University PH reflex trumpets. These speakers, rated at 30 watts, are not used at their full output, so that undoubtedly smaller ones might be adequate. The indoor speakers are Racon MN-15B, rated at 20 watts.

This system of communications for expediting car inspection was conceived and installed entirely by the Frisco's communication department. The benefits are proving to be so important that similar installations are now being planned for other principal yards on the Frisco.



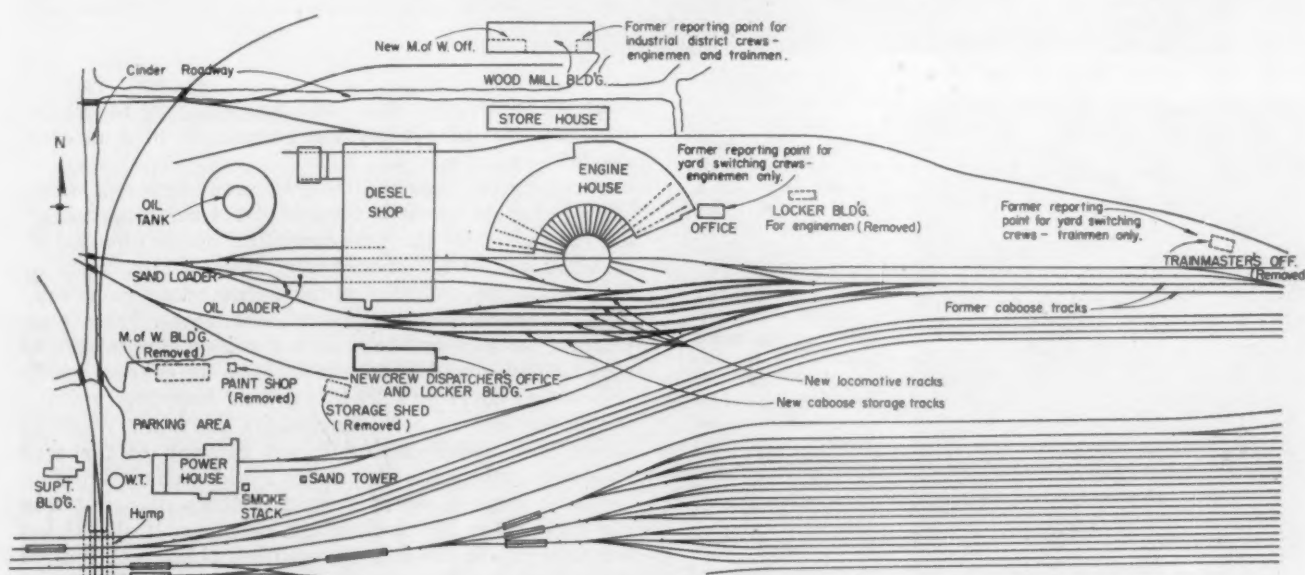
The new crew-dispatcher's building is a one-story face-brick structure with architectural-projected windows. The track in the left foreground leads to the new caboose and locomotive made-ready tracks. Elevated tracks in background are the westbound hump approach tracks.

## Operating Advantages from New Crew-Dispatching Building

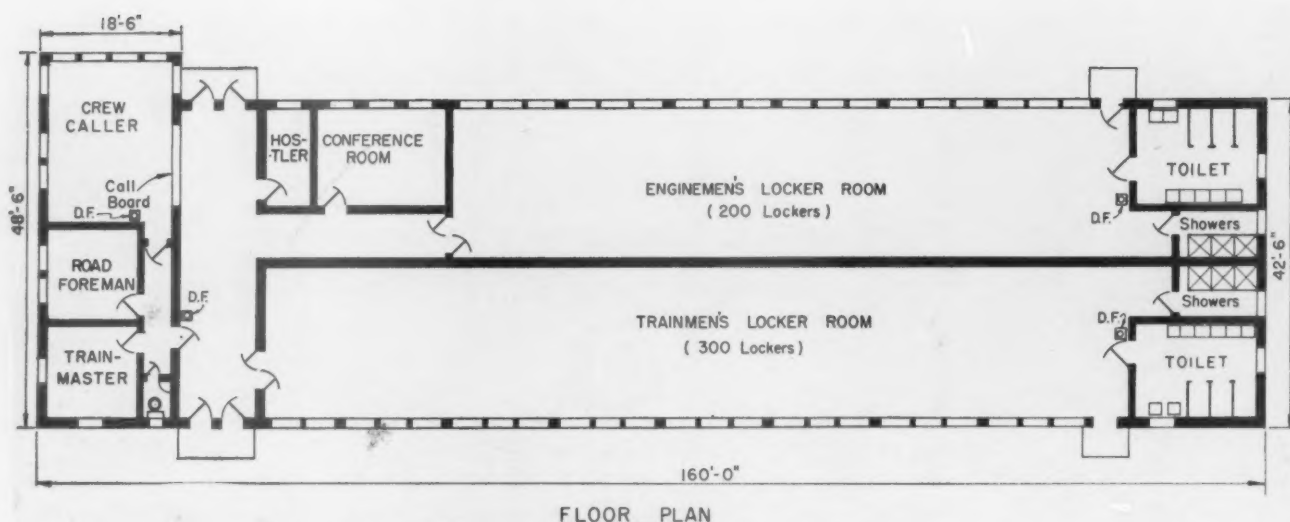
*Formerly separated reporting points and welfare facilities for enginemen and trainmen now centralized in a single structure*

Through track changes and construction of a new crew dispatcher's office and welfare building at its Clearing yard, the Belt Railway of Chicago has effected three-fold benefits with an expenditure of about \$166,000. The

trainmen and enginemen now report at one centralized location instead of the separated reporting points formerly used. Moreover, the outbound locomotives and the cabooses are within short walking distance from the



This part of Clearing yard included various scattered points where the enginemen and trainmen formerly reported for duty. New tracks and the new crew-dispatcher's building now provide better control and efficiency.



Floor plan of the recently completed crew-dispatcher's office and welfare building.



The call board has small wood blocks to indicate the members of all crews. Enginemen, firemen and hostlers are shown on the near side of the panel, yardmasters, train directors and switch tenders in the small compartments over the window, and conductors and brakemen on the far side. Each compartment includes three to four blocks. The blocks in the compartments on the engine-crew's side of the call board show the train number, the engineman, and the fireman, and those on the trainmen's side show the train number, the conductor and the two brakemen. In addition to those men lined up for duty, the board also shows which men are off duty or on vacation, those who are "bumped," and those on the extra lists.



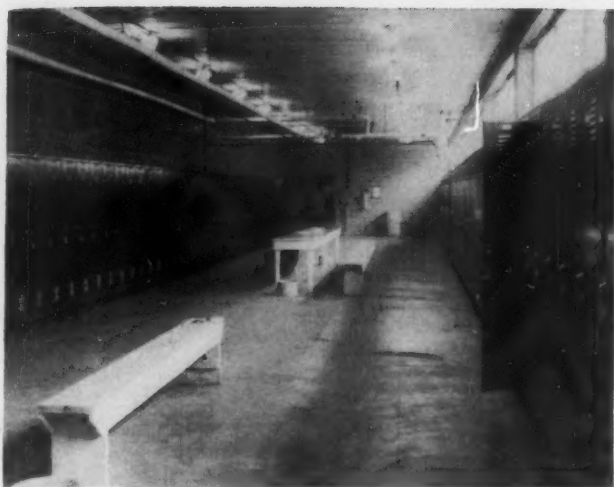
From the hall side of the call board, through a glass panel, the men can see to what crews they are assigned. The smaller glass-paneled wall cabinet just beyond shows the seniority lists of the trainmen, enginemen and firemen. Each man on both lists is assigned a number according to his seniority service date, and this number is used on the block bearing his name on the call board.

point where the enginemen and trainmen now report for duty, and the men enjoy the advantages of a modern wash-and-locker room.

Formerly the industrial district crews reported at an office in an old wood mill north of the old roundhouse; the enginemen of the yard-switching crews reported at an office east of the roundhouse; while the trainmen of the latter crews reported at the trainmaster's office near the east end of the existing caboose tracks. From each location the men had to walk a considerable distance to the locomotive made-ready tracks or to the caboose tracks before they could actually board their respective units.

But that has all been changed by the recent improvements. The accompanying layout drawing of the area shows how the crew dispatcher's and welfare building has been located within a short distance of new tracks for made-ready locomotives and cabooses. It also shows the locations of the former reporting points and the old caboose tracks. With the new track arrangement the men walk only 200 to 300 ft. as compared with as much as 1,200 ft. under the old arrangement.



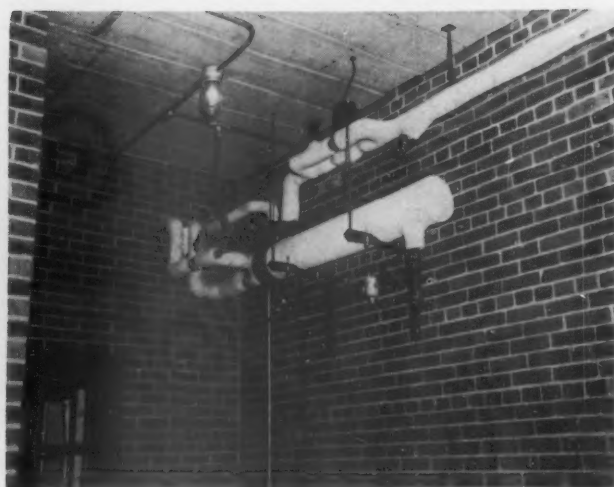


Locker room plans call for a double bank of lockers to be placed between the present sidewall banks, and more benches and tables.

The new one-story crew dispatcher's office and welfare building houses the crew caller, road foreman, trainmaster and hostlers, and provides separate wash-and-locker facilities for the enginemen and trainmen. The building also has a conference room, 13 ft. by 17 ft.

The new structure is fireproof and has a concrete floor and face-brick walls, both exterior and interior, except that the inside wall surfaces in the small offices, toilets and shower rooms are faced with Arketex ceramic tile. The roof structure is of Flexicore slabs overlaid with Fiberglas insulation and a built-up tar-and-gravel surface. The concrete floor is finished with a red pigmented surface hardener. Heat is furnished by a supply line from the nearby diesel shop to wall convectors in the smaller rooms and to Modine ceiling cabinets in the two locker rooms.

A Bell & Gossett Model SU-64-2 hot-water heater supplies all the hot water needed for the showers and lavatories. It is set by thermostat to a 160-deg. temperature and furnishes hot water instantly, the water passing through copper coils heated by steam. A circulating pump keeps the water moving so that it stays hot at the out-



The hot-water heater will furnish an ample supply for all lavatories and showers in the building at the rate of 440 gal. per hr.

lets. Moisture-proof light fixtures were installed in the locker and the shower rooms.

Some of the existing trackage was rearranged and new tracks were constructed to produce two caboose tracks and four tracks for locomotives. One locomotive track is used for movements to the enginehouse and for a running track. Another is used solely for the industrial district runs. A third is used by inbound engines and the fourth by outbound.

To provide a parking lot of adequate size, it was necessary to remove three existing maintenance-of-way buildings which housed the roadmaster and his staff, a carpenter shop, a paint shop and a storage shed. New quarters for these men and facilities were provided in an existing brick building known as the wood mill, which was extensively remodeled.

The construction work was carried out under the general direction of A. B. Hillman, chief engineer of the Belt, and D. E. Perrine, assistant chief engineer. Building work was done under contract by the Ellington Miller Company, Chicago, and the track work was done by railroad forces.

## New Book . . .

**POPULAR MECHANICS' PICTURE HISTORY OF AMERICAN TRANSPORTATION**, edited by Edward L. Throm. 312 pages; approximately 1,000 illustrations. 8 7/16 in. by 11 in. Published by Simon & Schuster, New York. \$5

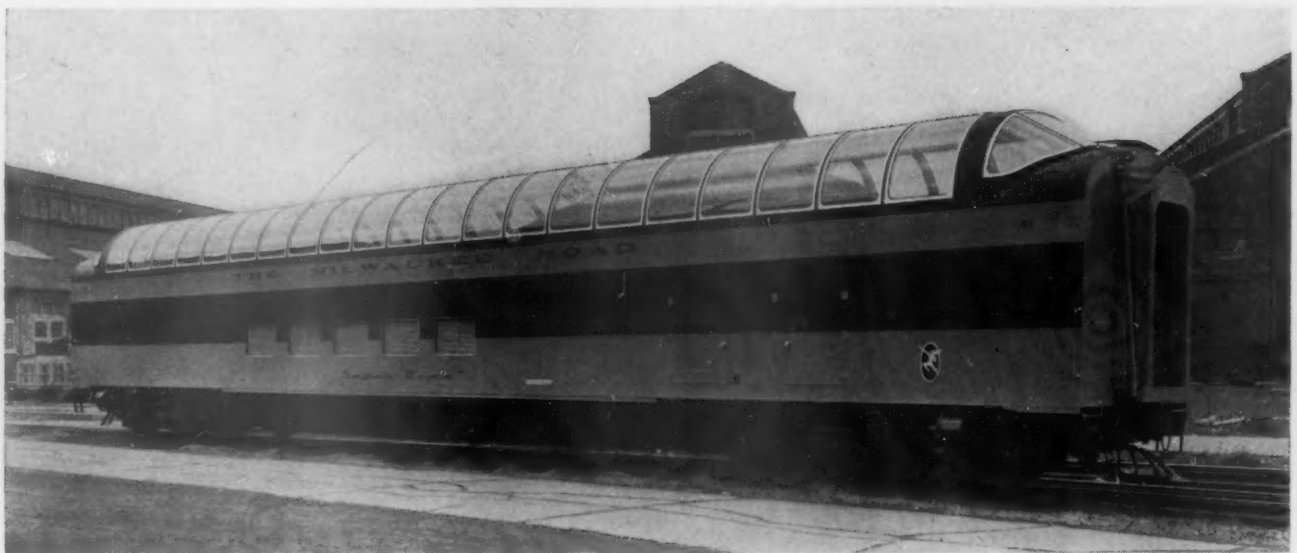
This is a panoramic picture history of American transportation from the Indian canoe to 1952. Because it is so profusely illustrated, it makes fascinating reading for children as well as adults. Mr. Throm has used many well-chosen pictures to show development of the transportation vehicles themselves while his text relates these individual developments to transportation progress as a whole. Because of its makeup, the book lends itself to random, as well as cover-to-cover reading.

The task of compiling and editing a work of this nature is an undertaking of ambitious proportions. Mr. Throm has done remarkably well. He has subdivided the work into six chronological periods: Colonial Days; the Westward Movement; the Period of Settlement and Immigration; Horseless Carriages and Piano Wire Crates; Transportation in Our Time; and Transportation of the Future. With

the assistance of seven contributing editors, Mr. Throm probes into many seldom-chronicled phases of transportation as well as those more familiar, and he does so with a high degree of accuracy.

There are a few omissions which would seem worthy of attention. This reviewer for example, was unable to find any reference to transportation on the Great Lakes. Such activities as the railroad car ferries, the ore and grain carriers, the self-unloaders and the now-historic passenger steamers of these inland seas would seem fitting subjects for a work of this nature. Harbor transportation—metropolitan passenger ferries and the like—as well as coastal transportation of passengers and freight, are likewise missing.

In general, Mr. Throm's coverage of commercial transportation is somewhat overshadowed by that of individual, private means such as the wagon, the automobile, the bicycle and the private airplane. And perhaps too much of the space devoted to commercial transport is concerned with the unusual and the experimental rather than that which was typical of the various eras depicted. In covering the railroads, the book is somewhat stronger in its historical phases than in depicting current activities, such as different types of diesel motive power, modern electric locomotives or a C. T. C. machine.



**THE PROBLEM:** How to make a costly investment like this pay off through better train earnings. The Milwaukee's answer: Exhibit it "wholesale" as well as "retail."

## The Milwaukee "Wholesales" Its Ten "Super Dome" Cars

*More than 900 eastern and southern railroad ticket agents, passenger representatives and information clerks "sample the new merchandise"*

If super-salesmanship can pack more profit into the passenger business, the Chicago, Milwaukee, St. Paul & Pacific should be seeing results. On January 1 ten newly acquired "Super Dome" cars (*Railway Age*, December 8, 1952, page 68) entered revenue service in the "Olympian" and "Twin Cities Hiawathas" following what could almost be described as a "whirlwind courtship" of both the public and members of the railway passenger fraternity. The cars actually were delivered by Pullman-Standard Car Manufacturing Company late in November. They were far from idle during those weeks prior to entering regular service.

### THE "RETAIL" PROGRAM

Public display of the cars, under the direction of public relations and passenger traffic department representatives, was conducted at stations in most major on-line cities. An extensive ad campaign in the local press foretold the exhibit and invited the public. The schedule included:

- |                      |                     |
|----------------------|---------------------|
| • Chicago, Ill.      | • Kansas City, Mo.  |
| • Milwaukee, Wis.    | • Aberdeen, S.D.    |
| • St. Paul, Minn.    | • La Crosse, Wis.   |
| • Minneapolis, Minn. | • Sioux Falls, S.D. |
| • Seattle, Wash.     | • Madison, Wis.     |
| • Spokane, Wash.     | • Des Moines, Iowa  |
| • Miles City, Mont.  | • Sioux City, Iowa  |
| • Tacoma, Wash.      | • Green Bay, Wis.   |
| • Butte, Mont.       | • Savanna, Ill.     |

After physical clearances had been checked at "tight" spots along the route and after train crews, dining car department employees and others were briefed in operation of the new equipment, a well-planned program of publicizing these costly cars was put into action. It began on December 4 with private showings of a single dome car to railway officers and members of the press at Chicago, Milwaukee, St. Paul, Minneapolis and Seattle. December 5 saw the beginning of a series of public exhibitions at on-line cities that continued through December 13 with six of the cars "on duty" staffed by public relations and passenger traffic representatives. On December 6, the car on display at Chicago teamed up with the remaining three cars, plus six regular streamlined coaches and a tap-lounge car, to form a special train which accommodated more than 900 passenger department employees of eastern and southern railroads on two demonstration runs to Rondout, Ill., some 32 miles northwest of Chicago.

### From Many Different Cities

They came to see these new cars from ticket offices as distant as Boston, Atlanta, Philadelphia, Toronto, New Orleans, New York and Buffalo. Every detail of their trips was carefully worked out well in advance by the Milwaukee's passenger traffic department. First, each guest had received a formal invitation to attend the "preview" from the local Milwaukee passenger representative in his city. Then trip and berth passes—not



**1** Long before departure of the dome car special, a large crowd of ticket agents and passenger people had gathered by the train gate . . .



**2** But loading was uncrowded because the group was carefully subdivided into "less-than-carload lots" by Milwaukee passenger men.



**3** Curiosity and eager expectation marked the faces of the guests—many of whom had never before seen a dome car of any kind.



**4** "Moose milk—a surprising beverage"—and "Hia! Watha" headgear for everyone soon broke down the barriers of formality.



**5** As the train got under way, guests found a chance to renew many business acquaintances—with dome cars the prime conversation piece.



**6** Initiation into the "Tribe of Hiawatha" was conducted in every car by "Chiefs" Harry Sengstacken and William Wallace.

counted against annual quotas because of the educational nature of the trip—were arranged for by the Pullman Company. From major cities, the passenger people came in groups personally escorted by the same Milwaukee agent who had extended the invitation.

The names of all guests had been forwarded to the office of Harry Sengstacken, passenger traffic manager,

and advance arrangements completed for such details as pin-on name tags and Indian headdresses, plus a corsage (in Milwaukee colors of course) for each of the ladies. Arriving at Chicago, the groups were transferred to Union Station by special limousines provided by the Parmelee Transportation Company. Breakfast was available for those who arrived early and by 10 a.m. a large





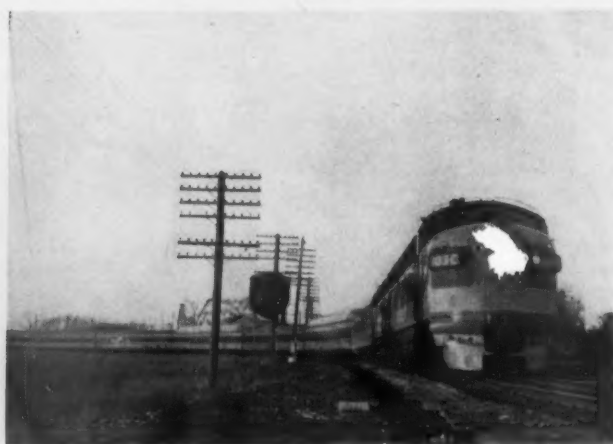
**7** At Rondout, Ill., the train was turned on tracks of the Elgin, Joliet & Eastern. But before returning to Chicago, it paused . . .



**8** For a short christening ceremony, for which Mr. Sengstacken handed President John P. Kiley a bottle of Lake Michigan and Puget Sound water.



**9** "I Christen Thee 'Super-Dome'" said Mr. Kiley's daughter Jane, as press cameras clicked and faces lined the windows three abreast.



**10** The christening over, the train headed back to Chicago. As the guests settled down, they learned the story of the new cars from . . .



**11** Pullman-Standard's associate director of engineering, Ralph Haman (wearing headdress), who answered many questions over the public address system.



**12** Once the train was unloaded at Chicago, car cleaners took over and the locomotive backed out preparatory to the next performance that afternoon.

crowd had gathered at Gate 17 where the dome special train was scheduled to start its first trip at 10:35.

Because the train could not comfortably hold the entire group of 900 at one time (at least they would not all have had a good chance to ride in the domes), Mr. Sengstacken's staff made arrangements with the Gray Line Sight-Seeing Company for half of the group to go on

a tour of Chicago during the morning. For this move, the Gray Line furnished six glass-roofed buses. At noon, both groups converged at a luncheon staged by Fred Harvey in both the lunch room and cafeteria in Chicago's Union Station. Neither room being large enough to hold the entire group at one time, simultaneous luncheons were served in each, the "split" speakers' table being united by a two-way public address system. Upon conclusion of the luncheon, each group traded places—the morning train group taking the sightseeing tour

while the other group took its trip in the dome train.

Careful attention to each phase of this mass movement enabled the entire day to go off without a hitch. There was room for everyone at each phase of the tour and throughout the day the crowds were carefully subdivided to prevent long line-ups or rushes.

And because there was a Milwaukee passenger representative near at hand all the time, the whole affair, from start to finish, was conducted with a distinctly personalized touch.

## Locomotive Service Becoming Safer

*Bureau of Locomotive Inspection fiscal report shows steady decline in accidents and casualties since 1947—Director finds difficulty in recruiting inspectors under present conditions*

The number of accidents caused by failure of some part or appurtenance of the steam locomotive was 122 for the fiscal year ended June 30, 1952. This was a reduction from 167 the previous year, as shown by Edward H. Davidson, director of the Bureau of Locomotive Inspection, in his annual report to the Interstate Commerce Commission. During the same period the number of accidents caused by failure of some part or appurtenance of locomotives other than steam increased from 54 to 74, making the total number of accidents for all types of locomotives 196 as compared with 221 for the preceding year.

### Casualties Decline

The decline in casualties was proportionately greater than that in accidents. For all classes of motive power the number of persons killed declined from 16 to 4 and the number of injured from 299 to 203. Declines in both classes of casualties were reported for all types of locomotives. The number killed in steam locomotive accidents declined from 14 to 3 and in accidents involving locomotives other than steam, from 2 to 1. The number of persons injured on steam locomotives declined from 170 to 126 and on locomotives other than steam, from 129 to 77.

The report reflects the progress being made in dieselization. The number of steam locomotives for which reports were filed dropped from 26,595 during the 1951 fiscal year to 20,490 during the 1952 fiscal year. In the same period units other than steam for which reports were filed increased from 19,320 to 22,716. The total for all classes of power declined from 45,915 to 43,206.

The tables show the trend in the number of locomotives, number inspected, the number on which defects were found, the number of defects, and the number of accidents and casualties each year 1947 to 1952, inclusive, for all types of motive power. They also show the number of casualties among the members of train crews and other employees for the years 1948 to 1952, inclusive. Copies of published reports of accident investiga-

tions were distributed to interested parties and otherwise used by the bureau to bring about a diminution in the number of such accidents.

During the year 14 per cent of the steam locomotives and 9.3 per cent of locomotive units other than steam which were inspected by the inspectors of the bureau were found with defects or errors in inspection which should have been corrected before the locomotives were put back into use. The increase in each case was one per cent as compared with the results of the preceding year.

### Boiler Explosions Decline

Four boiler explosions occurred during the year, all caused by overheating of the crown sheet due to low water. They resulted in one person killed and six injured. Three of the explosions occurred on locomotives in freight service and one on a locomotive in charge of a watchman. One of the locomotives in freight service was equipped with a low-water alarm which apparently had functioned, but no testimony was developed to indicate that the low-water-alarm warning whistle sounded or was heard by members of the engine crew.

In a second explosion involving a locomotive in freight-train service evidence indicated that absence of a safe water level was known to employees on the locomotive prior to the accident. No defects were found on this or the third freight engine which would have contributed to the accidents.

Fatalities to one person and injuries to 30 others resulted from 31 boiler and appurtenance accidents other than explosions. This is a decrease of 14 accidents, an increase of one in the number of persons killed, and a decrease of 16 in the number of persons injured compared with the preceding year.

### Flue-Removal Time Extensions

The director reports 845 applications filed for extensions of time for removal of flues. Investigation disclosed

## SUMMARY OF INSPECTIONS AND DEFECTS FOUND

### Steam Locomotives

	Year ended June 30—					
	1952	1951	1950	1949	1948	1947
Number of locomotives for which reports were filed	20,490	26,595	29,743	33,866	37,073	39,578
Number inspected	45,220	62,113	66,809	85,353	93,917	94,034
Number found defective	6,234	7,995	6,740	7,035	9,417	10,248
Percentage of inspected found defective	13.8	12.9	10.1	8.2	10.0	10.9
Number ordered out of service	370	508	399	436	654	708
Number of defects found	24,738	34,657	28,504	28,642	38,855	41,250

### Locomotive Units Other Than Steam

	Year ended June 30—					
	1952	1951	1950	1949	1948	1947
Number of locomotive units for which reports were filed	22,716	19,320	15,719	12,692	9,803	7,805
Number inspected	65,263	52,948	42,503	30,684	20,798	13,115
Number found defective	6,087	4,375	2,748	1,238	853	633
Percentage of inspected found defective	9.3	8.3	6.5	4.0	4.1	4.8
Number ordered out of service	135	106	42	20	21	19
Number of defects found	16,613	11,935	6,325	2,804	1,745	1,442

## ACCIDENTS AND CASUALTIES CAUSED BY THE FAILURE OF LOCOMOTIVE PARTS OR APPURTENANCES

### Steam Locomotives, Including Boiler, or Tender

	Year ended June 30—					
	1952	1951	1950	1949	1948	1947
Number of accidents	122	167	169	228	341	360
Percent increase or decrease from previous year	26.9	1.2	25.9	33.1	5.3	14.1
Number of persons killed	3	14	7	10	15	16
Percent increase or decrease from previous year	78.6	1100	30.0	33.3	6.3	160.0
Number of persons injured	126	170	184	243	361	464
Percent increase or decrease from previous year	25.9	7.6	24.3	32.7	22.2	15.7

### Locomotive Units Other than Steam

Number of accidents	74	54	51	49	41	40
Number of persons killed	1	2	3	..	..	2
Number of persons injured	77	129	50	67	50	41

### Steam Locomotive Boiler<sup>2</sup>

	Year ended June 30—					
	1952	1951	1950	1949	1948	1947
Number of accidents	35	51	59	81	104	116
Number of persons killed	2	3	4	9	14	12
Number of persons injured	36	59	70	94	108	124

<sup>1</sup>Increase.

<sup>2</sup>The original act applied only to the locomotive boiler.

## CASUALTIES CLASSIFIED BY OCCUPATION

### Steam Locomotive Accidents

	Year ended June 30—									
	1952		1951		1950		1949		1948	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
Members of train crews:										
Engineers	1	36	2	51	2	64	3	75	3	109
Firemen	2	45	3	62	2	64	3	92	6	155
Brakemen	19	1	20	2	29	1	30	3	43	..
Conductors	3	..	6	..	4	..	7	..	5	..
Switchmen	2	1	8	..	5	..	6	..	10	..
Roundhouse and shop employees:										
Boilermakers	2	..	2	..	2	..	2	..	4	..
Machinists	2	1	2	..	1	..	4	1	2	..
Foremen	2	..	2	..	1	..	..	..	1	..
Inspectors	..	..	2	..	2	..	..	..	..	..
Watchmen	2	1	..	1	4	1	..	2	1	..
Boiler washers	..	..	..	..	..	..	..	..	..	..
Hostlers	8	1	4	..	1	1	8	..	8	..
Other roundhouse and shop employees	2	..	2	..	2	1	4	..	5	..
Other employees	1	..	3	..	4	..	6	..	12	..
Non-employees	2	4	6	..	1	..	9	..	6	..
Total	3	126	14	170	7	184	10	243	15	361

### Locomotive Units Other Than Steam

Members of train crews:										
Engineers	15	..	11	..	15	..	12	..	7	..
Firemen	31	1	30	..	21	..	14	..	24	..
Brakemen	1	12	..	..	3	..	6	..	1	..
Conductors	4	..	..	..	4	..	..	..	2	..
Switchmen	8	..	5	..	1	..	4	..	2	..
Maintenance employees	6	1	3	..	3	..	8	..	..	..
Other employees	1	..	13	1	2	..	13	..	2	..
Non-employees	..	..	63	2	1	..	10	..	12	..
Total	1	77	2	129	3	50	..	67	..	50

that in 93 of these cases the extension could not properly be granted. Extensions for shorter periods than requested were allowed in 8 cases and 35 extensions were granted after defects disclosed by the investigations were repaired. Forty-four applications were cancelled and 645 were granted for the full period requested.

Sixty-one specification cards and 2,277 alteration reports for steam locomotives were filed, checked and analyzed during the year. A total of 3,781 specification cards and 636 alteration reports were filed for locomotives other than steam and 839 specification cards and 267 alteration reports were filed for boilers mounted on locomotive units other than steam.

## Inspectors Hard to Recruit

The director called attention to the fact that the general use of two types of locomotives has increased the responsibility of inspectors and requires that candidates for the position of inspector be men of wider experience and training than was formerly required. He also calls attention to the fact that increases in salaries and improvement in working conditions of men employed by the railways whose duties provide qualifying experience for applicants has caused difficulty in obtaining replacements. To meet these conditions he recommends that the position of inspector of locomotives be allocated to the next salary grade above that now designated.

No formal appeal by any carrier was taken from the decision of any inspector during the year.



THESE COMPLETE AUTOMOBILES and automobile bodies are on cars specially equipped by the Victorian Railways (Australia) for two-tier loading. In this manner, large numbers of motor vehicle bodies, as well as complete vehicles, are regularly transported 483 miles from Adelaide, the capital of South Australia, to Melbourne, the Victorian capital.





This 40-ton experimental aluminum refrigerator car was built in 1946.

## Aluminum Reefer Stands Test of Time

In 1946 the Illinois Central constructed at McComb (Miss.) shops a 40-ton experimental aluminum refrigerator car, No. 51000, which was equipped with a Duryea cushion underframe, stage icing, convertible bulkheads and air-circulating fans. It was designed to meet all railroad requirements as well as the specifications of the United Fresh Fruit and Vegetable Association. The lightweight of the car (described in *Railway Age*, November 23, 1946) was 51,500 lb., or roughly 6¼ tons less than an equivalent steel car and, while no record of total mileage operated up to date is available, the total ton-miles saved by this reduction in tare weight is impressive.

The car was inspected thoroughly in 1949 and again in October 1952, just six years after being placed in service, and it was found to be in excellent general condition. Some minor mechanical defects were uncovered, such as might be expected in any type of car used in the same service for the same period of time, but there was no evidence of deterioration of the aluminum superstructure of the car or of any steel parts used in the underframe.

The Ureco all-aluminum floor racks were reported in good condition, also the plywood sheathing used in the flue lining and ceiling. There was some discoloration or blistering, mostly at the doorway areas due to con-

densation. A few minor corrections in mechanical details such as the Equipco ice bunker locks and grates, made after the initial inspection in 1949, were found O.K. in 1952. There were no indications of failure of any part of the Preco fan equipment or the Duryea cushion underframe.

The side-wall linings were removed from the AL-end of the car at the same location as in the 1949 inspection and the Fiberglas insulation was reported in excellent condition. The discoloration of the paper covering around the stitching, which had been noted at the earlier inspection, had not progressed to any great degree. The



Insulation in the IC aluminum refrigerator car after six years' service.

insulation was dry and had the same fullness as when installed. Since the point of inspection of the side wall insulation was at the location where the insulation had been cut for the installation of the Preco fan, it was decided to cut into the insulation for a distance of several feet from the Preco fan location. This was done to determine if the amount of dust present at the fan point extended to any great degree into the insulation, and also to determine if the insulation farther back along

the car wall was in the same dry, fluffy condition. This insulation was reported in excellent condition with all the qualities and characteristics of new insulation.

The ceiling panel directly over this section was also opened for comparison with earlier inspection, and was found to be in good condition. No attempt was made to open the floor to inspect the floor insulation since its general condition indicated such disturbance of the floor to be unwarranted.

## Cecil M. Self Elected President Of Norfolk Southern

Cecil M. Self (whose photograph appears on page 8), executive vice-president of the Norfolk Southern since March 2, 1949, has been elected president to succeed Joseph T. Kingsley. Mr. Self was elected chief executive at a recent special meeting of the directors in Philadelphia. A spokesman for the company announced that the responsibilities and duties of the office of executive vice-president will be absorbed by Mr. Self as president, and that Mr. Self's former position has been abolished.

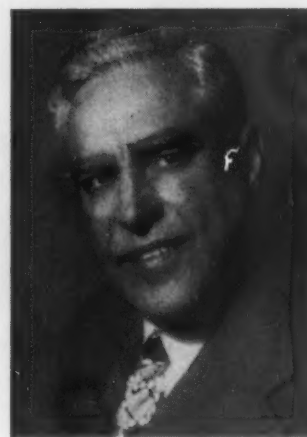
At the special meeting, E. Elwood McClure, a member of the board, was elected chairman to succeed Patrick B. McGinnis, who recently resigned to become chairman of the Central of Georgia (*Railway Age*, January 25, page 51). Perry N. Selheimer, also a board member, was elected chairman of the executive committee to succeed C. Newton Kidd, who now holds the same position on the CofG. L. P. Kennedy, general superintendent, was elected to the newly created position of resident vice-president at Raleigh, N.C.

Mr. Self, after his election, said it will be his purpose "to solidify the advances made in recent years." "This," he added, "will be no easy objective, as the Norfolk Southern is in very good condition."

### Cecil M. Self

The new president of the NS was born in Oakman, Ala., on February 9, 1900, and received an LL.B from Atlanta (Ga.) Law School in 1930. During vacations from school and while on leaves of absence, he worked as a laborer and mechanic and studied railroad yard and terminal operations, as well as railroad reorganization problems. He entered railroad service in 1918 as a clerk, later becoming accountant, in the maintenance of way and transportation departments of the Southern. From 1921 to August 1939 he was, successively, chief clerk to roadmaster, chief clerk to chief dispatcher, chief clerk to engineer—maintenance of way, chief clerk to superintendent, assistant trainmaster and trainmaster.

In August 1939 Mr. Self was appointed executive assistant, at Chicago, of the Chicago, Indianapolis & Louisville. From April 1942 to May 1946 he was chief operating officer of the Monon. An appointment as executive assistant to the president of the Norfolk



Joseph T. Kingsley

Southern became effective on May 14, 1947. Mr. Self retained that office until his appointment as executive vice-president.

### Joseph T. Kingsley

Mr. Kingsley, born in Baltimore, entered railroad service in 1903 with the Pennsylvania, serving in turn as fireman, brakeman and trainmaster until April 1912 when he joined the Western Maryland as assistant chief rate clerk. Later in 1912 he transferred to the New York Central as a temporary commercial agent, opening the NYC's commercial office in Baltimore. Shortly thereafter he was appointed in the same capacity to cover territory around that office. He was transferred in 1913 to the Pittsburgh district, doing special work for the Cleveland, Cincinnati, Chicago & St. Louis. Assigned to the Washington, D.C., office to handle troop and equipment movements for the NYC in connection with Mexican border troubles, Mr. Kingsley concurrently acted as adviser to the quartermaster general's office, Transport Section, U.S. Army. He was commissioned a captain in the Army in August 1917.

Retiring from the Army in 1920, Mr. Kingsley returned to the NYC as special assistant to the president. After a term as executive general agent at Terre Haute, Ind., in charge of mining operations, he resigned to start his own coal mining business. Five years later he left that business and opened offices in the nation's capital as a special traffic representative for several railroads. During the last war he was ordered to duty as a major in the adjutant general's office, procurement service, Army Specialty Corps. Mr. Kingsley was elected president of the NS in August 1947.



(Continued from page 22)

Atlantic Coast Line, \$989,833, 40 per cent.  
 Central of Georgia, \$369,595, 40 per cent.  
 Chesapeake & Ohio, \$1,485,300, 40 per cent.  
 Chicago, Rock Island & Pacific, \$4,550,000, 55 per cent.  
 Delaware, Lackawanna & Western, \$4,650,000, 55 per cent.  
 Duluth, Missabe & Iron Range, \$292,336, 40 per cent.  
 Duluth, South Shore & Atlantic, \$690,778, 40 per cent.  
 Erie, \$1,425,000, 60 per cent.  
 Gulf, Mobile & Ohio, \$353,000, 70 per cent; and \$318,997, 55 per cent.  
 Kansas City Southern, \$516,010, 50 per cent; and \$69,953, 40 per cent.  
 Illinois Central, \$32,650, 40 per cent.  
 Lehigh Valley, \$550,000, 70 per cent; and \$275,000, 60 per cent.  
 Monongahela, \$53,310, 40 per cent.  
 Nashville, Chattanooga & St. Louis, \$28,525, 70 per cent.  
 New York, Chicago & St. Louis, \$2,038,107, 55 per cent.  
 Seaboard Air Line, \$101,855, 40 per cent.  
 Southern Railway System, \$528,329, 40 per cent; \$52,000, 70 per cent; and \$32,500, 50 per cent.  
 Southern Pacific \$599,771, 40 per cent.  
 Spokane, Portland & Seattle, \$40,266, 40 per cent.  
 Tennessee Central, \$622,800, 40 per cent.  
 Union, \$7,640,000, 70 per cent.  
 Union Pacific, \$93,510, 40 per cent; and \$25,574, 70 per cent.  
 Wabash, \$3,725,323, 55 per cent; and \$120,140, 40 per cent.

In its report for the period from January 15 through January 28, D.P.A.

## ANOTHER PAN AMERICAN CONGRESS PRIZE

A further prize of \$1,000, in addition to others previously announced (*Railway Age*, February 16, page 16; February 9, page 11; December 8, 1952, page 12, and August 18, 1952, page 58) has been offered by the International General Electric Company in connection with the VIII Pan American Railway Congress to be held in Washington, D. C., and Atlantic City, N. J., June 12-25. This latest prize is offered for the best paper on one of the following subjects having to do with electric or diesel-electric power: Standardization, new developments in electric locomotives and improvements in power facilities and distribution; training of enginemen; preventive maintenance; repair shops (equipment, organization and operation).

To be considered for this prize, papers, in triplicate, must be in the hands of the chairman of the committee on papers—Dr. Lewis K. Sillcox, vice-chairman of the board of the New York Air Brake Company, Watertown, N. Y.—by February 28.

showed that certificates then approved included the following:

Atlantic Coast Line, \$551,302, 40 per cent.  
 Baltimore & Ohio, \$250,000, 60 per cent.  
 Central of Georgia, \$3,296,920, 55 per cent; and \$387,113, 70 per cent.  
 Chesapeake & Ohio, \$55,000, 40 per cent.  
 Chicago & Eastern Illinois, \$211,930, 40 per cent.  
 Chicago, Rock Island & Pacific, \$1,450,000, 70 per cent.  
 Detroit, Toledo & Ironton, \$3,134,742, 70 per cent.  
 Florida East Coast, \$1,112,500, 70 per cent.  
 Great Northern, \$125,000, 50 per cent.  
 Indianapolis Union, \$307,734, 55 per cent.  
 Northwestern Pacific, \$51,870, 40 per cent.  
 St. Louis-San Francisco, \$3,494,650, 70 per cent.  
 St. Louis Southwestern, \$1,311,053, 40 per cent.  
 Southern, \$132,000, 50 per cent; \$91,063, 40 per cent.  
 Southern Pacific, \$93,900, 40 per cent.  
 Texas & New Orleans, \$144,492, 50 per cent; \$16,197, 40 per cent.  
 Western Pacific, \$3,650,000, 70 per cent.

## Motor Carriers Set Pace For Growth of Revenues

Motor carrier revenues from intercity freight traffic grew twice as fast as freight revenues of Class I railroads during the 13-year period from 1939 through 1951.

This is shown by the accompanying table, reproduced from a study of motor carrier revenue and traffic which has been issued by the Bureau of Transport Economics and Statistics of the Interstate Commerce Commission. On the basis of 1939 as 100, the 1951 index for intercity truck revenues was 533.3, while that for railroad freight revenues was 266.1.

The study is Statement No. 531, issued "as information," and "not considered or adopted by the commission." It was prepared by Paul L. Ambelang, under supervision of C. S. Morgan.

Bureau Director W. H. S. Stevens explained in the preface that the figures are based on published data for Class I motor carriers and on estimates prepared from samples drawn from returns of Class II and III carriers.

The study's revenue figures show that common-carrier truckers had intercity revenues of \$3.5 billion in 1951, compared with \$579 million in 1939, while revenues of contract truckers were \$226.3 million and \$112 million, respectively.

Traffic figures show that common carriers performed 66.7 billion ton-

## CAR SURPLUSES, SHORTAGES

Average daily freight car surpluses and shortages for the week ended February 14 were announced by the Association of American Railroads on February 19 as follows:

	Surplus	Shortage
Plain Box .....	7,721	633
Auto Box .....	131	20
<b>Total Box .....</b>	<b>7,852</b>	<b>653</b>
Gondola .....	5,731	60
Hopper .....	45,718	125
Covered Hopper ..	469	0
Stock .....	6,742	0
Flat .....	116	340
Refrigerator .....	2,050	0
Other .....	287	28
<b>Total .....</b>	<b>68,965</b>	<b>1,206</b>

miles in 1951, compared with 14.9 billion in 1939. Meanwhile, traffic of contract truckers remained about the same—4.79 billion ton-miles in 1951, compared with 1939's 4.74 billion ton-miles.

## D.T.A. Will Cut Staff

Defense Transport Administrator James K. Knudson has announced plans for a reduction of D.T.A. employees in compliance with the Eisenhower Administration's request for all government agencies to make personnel reductions for the remainder of the fiscal year 1953.

The cut planned by D.T.A. requires issuance of 30-day notices on February 27 to about 25 per cent of the staff, including the group of Interstate Commerce Commission employees performing D.T.A. functions.

"With this contracted staff," Mr. Knudson's announcement said, "we will carry on the important programs currently underway to the extent of our ability. The failure thus far to obtain adequate amounts of those types of steel necessary to meet approved expansion goals for the nation's railroad and inland waterway fleets, a large

Indexes of Selected Revenue Figures, Class I, II, and III Motor Carriers (based on estimated revenues), of National Income, and of Revenue of Class I Line-Haul Railroads, 1939-1951

Year	Revenues from intercity freight of intercity motor carriers	Freight revenues of Class I line-haul railroads	(1939 = 100)			National income (r)
			Total operating revenues of passenger motor carriers	Total operating revenues of passenger and property motor carriers	Total operating revenues of Class I line-haul railroads	
1939	100.0	100.0	100.0	100.0	100.0	100.0
1940	111.1	108.8	103.6	108.4	107.5	112.2
1941	140.4	137.0	137.1	138.1	133.8	143.2
1942	152.0	183.2	226.9	166.1	186.9	189.0
1943	156.6	209.0	302.8	189.0	226.7	233.9
1944	156.2	215.7	317.9	196.5	236.2	253.5
1945	159.9	201.4	327.3	203.9	222.8	251.9
1946	187.6	178.4	328.3	229.9	190.9	248.6
1947	260.3	217.0	315.8	285.8	217.4	273.9
1948	340.0	245.8	334.3	339.5	242.1	308.1
1949 r	357.7	217.2	327.7	360.5	214.8	298.2
1950 p	472.1	240.9	318.6	444.8	237.1	329.7
1951 p	533.3	266.1	341.9	493.8	260.1	382.8

1 Estimates of intercity revenue only not available for the entire period.

p—Preliminary

r—Revised



backlog of applications for accelerated amortization in connection with defense supporting transportation expansion, and the growing manpower pinch in various sections of the transportation industry will require continued attention . . . There is also the problem of relating I.C.C. service activities in connection with railroads, water-borne, and street and highway traffic to the heavy production demands resulting from the mobilization effort. This will require a somewhat diminished but continuing activity."

## Intrastate Rate Cases

The Interstate Commerce Commission has found that unjust discrimination against interstate commerce results from the refusal of the Nebraska State Railway Commission to authorize intrastate freight-rate increases in line with interstate advances approved in Ex Parte 162, 166, and 168. Nebraska rates on cement were excepted.

The commission's decision, in No. 30960, said that an order requiring that the intrastate rates be raised would be issued unless the Nebraska commission advised that it would approve such an adjustment. The report noted the dissent of Commissioner Splawn.

In No. 30869, which involves Kansas intrastate rates, the commission has issued a report on reconsideration affirming its prior findings that Kansas rates on clay sewer pipe, clay drain tile and articles grouped therewith cause unjust discrimination against interstate commerce. Here again, the dissent of Commissioner Splawn was noted.

In No. 30959, which involves Colorado intrastate rates, the commission has found that Colorado rates on sugar beets, beet-sugar final molasses, lime rock and limestone, cement, coal, dolomite, and ganister rock cause unjust discrimination against interstate commerce; and that Colorado rates on cement result in undue prejudice against persons in interstate commerce. Commissioner Splawn dissented, while Chairman Alldredge and Commissioners Cross and Knudson did not participate.

In No. 30962, which involves Wyoming intrastate rates, the commission has found that Wyoming rates on sugar beets and beet-sugar final molasses cause unjust discrimination against interstate commerce. Commissioner Splawn dissented; Commissioner Patterson concurred "in the result" of the majority report; and Chairman Alldredge and Commissioners Cross and Knudson did not participate.

## Bills in Congress

Bills introduced recently in Congress include proposals which would carry out some of the legislative recommendations made by the Interstate Commerce Commission in its latest annual report.

They are S.905, which would author-

ize the commission to revoke or amend certificates of water carriers; S.906, which would preclude the filing by the government of complaints assailing, as unreasonable, rates granted by carriers to government agencies pursuant to the Interstate Commerce Act's Section 22; and S.907, which would permit controlled or controlling stockholders of a railroad to vote on its plan of voluntary financial reorganization.

These bills were introduced by Senator Johnson, Democrat of Colorado, former chairman of the Senate Committee on Interstate and Foreign Commerce and now the committee's ranking minority member. Other recently introduced bills, which are of interest to the railroads, are listed below, together with their sponsors.

### Introduced in Senate

S.796, to permit the charging of tolls on highways constructed with federal aid (Bush, Conn.).

S.892, to dissolve the Reconstruction Finance Corporation (Byrd, Va.).

S.904, to standardize rates on household goods shipped by the United States government (Johnson, Colo.).

S.908, to provide for separation of subsidy from air-mail pay (Johnson, Colo.).

### Introduced in House

H.R.2347, to permit continued exercise, until six months after termination of the national emergency proclaimed December 16, 1950, of powers relating to preferences in transportation, under Sections 1(15) and 420 of the Interstate Commerce Act (Wolverton, N.J.).

H.R.2531, to establish a National Superhighway Commission to provide for plans and surveys for construction of a national superhighway system (Elliott, Ala.).

H.R.2841, to repeal the tax on transportation of persons (Farrington, delegate from Hawaii).

H.R.2929, H.R.2961, and H.R.3104, to amend the Railroad Retirement Act (Dague, Pa., LeCompte, Iowa, Van Zandt, Pa.).

H.R.2970, to require the I.C.C. to consider, in stock modification plans, the assents of controlled or controlling stockholders (O'Hara, Minn., by request).

H.R.3095, to give the I.C.C. authority to require railroads to install radio and other train-communication devices (Price, Ill.).

## ABANDONMENTS

Division 4 of the I.C.C. has authorized:

**BESSEMER & LAKE ERIE.**—To abandon its Linesville branch, from Shermansville, Pa., to Linesville, 3.5 miles. Declining traffic on the line is attributed to loss of business to motor carriers, Division 4 said.

**CENTRAL OF GEORGIA.**—To abandon approximately 1½ miles (that part which it owns) of the line between Brumby, Ga., and Fort Oglethorpe; and to abandon operation over the line's remaining section (4,488 feet in length) which is owned by the city of Ft. Oglethorpe.

**DENVER & INTERMOUNTAIN.**—To abandon its entire line, approximately 15.8 miles, between Denver, Colo., and Golden. The Atchison, Topeka & Santa Fe; Chicago, Burlington & Quincy; Chicago, Rock Island & Pacific; Colorado & Southern and the Denver & Rio Grande Western have held operating rights over 6.5 miles of

the D&I line. The roads will abandon this operation, but will purchase the segment at net salvage value and use it as an industry track. The segment serves the Denver Federal Center, a government-owned installation.

**ILLINOIS TERMINAL.**—To abandon its 59.6-mile line between Forsyth, Ill., and Mackinaw Junction (*Railway Age*, June 23, 1952, page 102). Division 4's approval of the abandonment included a condition stipulating that the IT agree to sell the line, or any portion thereof, "to any responsible party offering, within 40 days (from January 12) . . . to purchase such property for railroad use, and willing to pay not less than the fair net salvage value. . . ."

**LEHIGH VALLEY.**—To abandon part of its Auburn branch, from a point near Cato, N. Y., to the end of the branch at Fair Haven, 12.43 mi.

**MOUNT CARMEL (Reading).**—To abandon a 5.9-mile rail line, owned by the MC but operated by the Reading, from Natalie Junction, Pa., to Natalie Colliery. The owner of coal deposits underlying a portion of the road won a court fight in which he sought the right to remove coal by strip mining. The Reading discontinued operations over the line July 25, 1952.

**READING.**—To abandon a 0.4-mile segment of branch line in Schuylkill county, Pa.

**TAMA & TOLEDO.**—To abandon its entire line, approximately 3.5 miles, extending from Toledo, Iowa, to Tama. Division 4 said the decline in traffic over the line "is attributable to its being diverted to trucks."

**UNION PACIFIC.**—To abandon operation over a section of the Sierra Nevada branch of its lesser, the Oregon-Washington Railroad & Navigation Co. The report also authorized the latter to abandon the same facilities, which include about 1¼ miles of line and 491 feet of side tracks in Shoshone county, Idaho.

**WESTERN NEW YORK & PENNSYLVANIA.**—To abandon a 4.4-mile segment of branch line, from a point near Smethport, Pa., to Crosby. The segment has been leased and operated by the Pennsylvania. No traffic has passed over the line since 1950.

Application has been filed with the I.C.C. by:

**HUNTINGDON & BROAD TOP MOUNTAIN.**—To abandon its entire line, consisting of approximately 44 miles of main line between Huntingdon, Pa., and Mt. Dallas, together with branch lines totaling about 10.6 miles. The road is in reorganization, but the abandonment application said "no feasible plan" of reorganization presently can be framed which would insure continued operation of the road.

**ONEIDA & WESTERN.**—To abandon its entire line, approximately 37.8 miles, extending from Oneida, Tenn., to Jamestown. The road said it has produced net railway operating income in only one year of the last 15, and that was due to a temporary situation, the construction of dam.

## EQUIPMENT AND SUPPLIES

### FREIGHT CARS

The Chicago & North Western has ordered 837 freight cars costing approximately \$5.7 million. In all, 625 box cars, 200 gondola cars and 12 cabooses will be delivered.

The box cars, to be built by the Pullman-Standard Car Manufacturing Company's Michigan City, Ind. plant, will feature nailable steel flooring, special lading strap anchors in the walls and fibre glass insulation in the ends to protect grain and flour lading from weevils. The Bethlehem Steel Company will build the 70-ton high-side gondolas at Johnstown, Pa. Delivery of the box cars is scheduled to begin in July; of the gondolas, in September.

The cabooses will be built by the International Railway Car & Equipment Mfg. Co. at Kenton, Ohio. They will be electrically lighted with power

furnished by propane-burning generator units. Bay windows—rather than cupolas—have been specified. Delivery is scheduled to begin in August.

## LOCOMOTIVES

The **Atchison, Topeka & Santa Fe** has ordered 97 diesel units from various manufacturers.

The **Chesapeake & Ohio** has ordered 67 diesel units at an estimated cost of \$10,585,000. Orders were placed as follows: Electro-Motive Division of General Motors Corporation—45 1,500-hp. road-switchers (expected delivery next March and April), and four 2,250-hp. passenger units (expected delivery next April and May); American Locomotive-General Electric Companies—16 1,000-hp. switchers (expected delivery next May and June); and Baldwin-Lima-Hamilton Corporation—two 1,600-hp. road-switchers (expected delivery next May).

The **Chicago & North Western System** has ordered 101 diesel units (including nine for the Chicago, St. Paul, Minneapolis & Omaha), at a cost exceeding \$16,000,000. The order, largest ever placed by the system, was distributed as follows: Electro-Motive Division of General Motors Corporation—11 2,250-hp. passenger units, 40 1,500-hp. road-switchers, and four 1,200-hp. and 12 600-hp. switchers; American Locomotive-General Electric Companies—five 1,000-hp. road-switchers (including one for the Omaha), and 10 1,600-hp. road-switchers (including three for the Omaha); Fairbanks, Morse & Co.—11 1,600-hp. road-switchers (including five for the Omaha), and three 1,200-hp. road-switchers; Baldwin-Lima-Hamilton Corporation—five 1,200-hp. switchers.

The **Duluth, Missabe & Iron Range** has ordered 15 1,200-hp. diesel switching units from the Electro-Motive Division of General Motors Corporation at an estimated cost of \$1,600,000. Delivery is scheduled during next March and April.

The **Georgia** has ordered two 1,500-hp. general-purpose diesel units from the Electro-Motive Division of General Motors Corporation at an estimated cost of \$324,496. Delivery is scheduled for next April.

The **Great Northern** has ordered 37 diesel units costing \$5,968,000. This is the equipment for which capital expenditures were authorized as reported in *Railway Age*, November 3, 1952, page 101. Orders were placed as follows: Electro-Motive Division of General Motors Corporation—four 4-unit 6,000-hp. freight locomotives (delivered in January and February), three 1,500-hp. road-switchers (for delivery next March), and eight 6-motor 1,500-hp. road-switchers (for delivery next April); American Locomotive-General Electric Companies — five 1,500-hp.

road-switchers (for delivery next May and June); Baldwin-Lima-Hamilton Corporation—five 1,200-hp. switchers (for delivery this February).

The **Kansas, Oklahoma & Gulf** has ordered one 1,500-hp. general-purpose diesel unit from the Electro-Motive Division of General Motors Corporation. The unit was delivered this month.

The **Midland Valley** has ordered four 1,500-hp. general-purpose diesel units from the Electro-Motive Division of General Motors Corporation. The units were delivered this month.

The **New York, Susquehanna & Western** has ordered two 1,000-hp. road-switching diesel units from the American Locomotive-General Electric Companies.

The **Pennsylvania-Reading Seashore Lines** have ordered six 1,600-hp. road-switching diesel units from the Baldwin-Lima-Hamilton Corporation at an estimated cost of \$1,032,900. Delivery is expected next March and April.

The **Southern Pacific** has authorized purchase of 100 diesel locomotives comprising 150 units totaling 225,000 hp. The authorization includes 77 locomotives ranging from 800 to 6,000 hp. each for main- and branch-line freight service; 19 1,200-hp. switchers; and four 6,750-hp. passenger locomotives. When these units are delivered they will bring the SP's total postwar investment in diesel power to almost \$200,000,000 in 1,257 diesel units.

The **Spokane International** has ordered three 1,000-hp. road-switching diesel units from the American Locomotive-General Electric Companies, at an estimated cost of \$375,000. Delivery is scheduled for next June.

The **Western of Alabama** has ordered two 1,500-hp. general-purpose diesel units from the Electro-Motive Division of General Motors Corporation at an estimated cost of \$324,496. Delivery is scheduled for next April.

## PASSENGER CARS

### Union Pacific Orders 70 Passenger Cars

The Union Pacific has ordered 70 passenger-train cars from the American Car & Foundry Co. at a cost of \$11,400,000. The new order is a restatement, totaling four less units, of an order previously placed by the UP for 74 passenger-train cars of various types (*Railway Age*, January 12, page 186). Included in the restated order are five coaches, five observation cars and five dining cars (all 15 will be astradome cars), 30 chair cars and 25 mail-baggage cars. Delivery is scheduled for 1954.

Each diner dome will have a capacity of 18, and 24 additional passengers

may be served on the lower level. Each car also will have a private dining room seating approximately 10 persons. The observation domes will seat 24 each. Each coach will have 24 revolving seats in the dome and, on the lower level, about 32 seats with leg rests.

## SIGNALING

The **Baltimore & Ohio** has ordered from the General Railway Signal Company equipment for installation of a relay interlocking at Clarksburg, W.Va.

The **Union Pacific** has ordered from the Union Switch & Signal division of the Westinghouse Air Brake Company material to install centralized traffic control on multiple tracks between Cheyenne, Wyo., and Laramie. The 15-ft. style C control machine will be installed at Cheyenne division headquarters. Installation will be handled by railroad forces.

## IRON AND STEEL

### UP's '53 Track Program Set at \$20.9 Million

Track relaying and reballasting scheduled by the Union Pacific for 1953 will involve expenditure of more than \$20.9 million. Crushed rock ballast will be applied to 430 miles of track, and rail will be relaid on over 624 miles of track. The rail program involves new 133-lb. rail for 401 miles of track and secondhand rail on the remaining 223 miles.

## SUPPLY TRADE

**B. F. Benning** has been appointed manager of the Shreveport, La., branch of the **Graybar Electric Company** to succeed **A. W. Wheeler**, appointed manager at New Orleans. Mr. Benning formerly was manager, lighting and lamp sales at Dallas.

The **Westinghouse Electric Corporation** has consolidated its marine, transportation and aviation department in New York. **James C. Frink**, formerly eastern district marine manager, has been appointed district marine, transportation and aviation manager, and **Alexander Shirreffs**, formerly of the sales department at New York, has been appointed supervisor of the transportation and aviation section for the New York office.

**Robert McNeal Smith** has been appointed assistant vice-president — sales, Eastern area, for the **Pittsburgh Screw & Bolt Corp.**, with headquarters in New York. **Samuel M. Sipe**, formerly sales representative in the western New York and Pittsburgh



areas, has been appointed manager of sales of the New York district, to succeed Mr. Smith.

**William P. Maginnis**, formerly with the Radio Corporation of America at Camden, N.J., has been elected vice-president and chief engineer of the **Federal Telephone & Radio Corp.**, Clifton, N.J., an associate of the International Telephone & Telegraph Corp.

The **Golden-Anderson Valve Specialty Company**, Pittsburgh, has acquired the shop and equipment of the **Imperial Machine Works**.

**H. E. Spitzer** has been appointed director of development for the **Sherwin-Williams Company**, with headquarters at Chicago, to supervise all the company's development laboratories, except the trade sales develop-



**H. E. Spitzer**

ment section. Mr. Spitzer joined Sherwin-Williams in 1937. In 1946 he was put in charge of the Chicago technical service department and in 1952 assumed general supervision of the paint, varnish and lacquer development laboratories at Chicago.

**Dan Call** has been appointed southeastern railroad representative for the **Philip Carey Manufacturing Company**. Mr. Call's title was incorrectly reported as railroad sales manager in *Railway Age*, January 12, page 16.

**E. S. Berry** has retired as assistant district manager for the **Union Switch & Signal division of Westinghouse Air Brake Company**, with headquarters at New York. Mr. Berry joined the company at New York in 1925 and, in 1928, was appointed resident manager of the Montreal office. In July 1938 he returned to the New York office as assistant district manager, in which capacity he continued to handle all matters pertaining to Union Switch & Signal's Canadian business.

**George L. Green**, whose appointment as sales vice-president of the **Pullman-Standard Car Manufacturing Company** was announced in *Railway Age*, February 9, page 89, was

a former executive vice-president of sales for the Spring Packing Corporation. After attending Yale University, Mr. Green began his business career in 1931 with the Continental Illinois National Bank & Trust Co. at Chicago. In 1934 he joined the Union Asbestos & Rubber Co., serving successively as service engineer, sales engineer, sales-



**George L. Green**

man and assistant vice-president. In 1944 he served as railroad sales manager for the Elastic Stop Nut Corporation. Later he became associated with the H. K. Porter Company as vice-president, remaining there until early in 1947, when he was appointed district manager in charge of western regional sales for the American Locomotive Company. In April 1948, he joined Pullman-Standard as manager of miscellaneous sales, a position he held until January 1949, when he became associated with Spring Packing.

## OBITUARY

**Fred J. Spenner**, vice-president and assistant to president of the Scullen Steel Company, died in Flint, Mich., February 10.

**G. H. Larson**, office manager of the Rail Joint Company at Chicago, died on February 7. Mr. Larson had served the Rail Joint Company for 50 years, 30 of which were spent as office manager at Chicago.

## FINANCIAL

**Hudson & Manhattan.** — *New Chairman.* — John W. Campbell has been elected chairman of the H&M board, to succeed Morris Cohon, who has resigned because of worsening health caused by a recent accidental injury. Mr. Cohon also resigned as a director and a member of the executive committee. Mr. Campbell will continue to serve as chairman of the executive committee.

## New Securities

Application has been filed with the I.C.C. by:

**CHICAGO & NORTH WESTERN.**—To assume liability for \$8,400,000 of equipment trust certificates, to finance in part 63 diesel-electric locomotives and 100 ore cars. Estimated cost of the equipment, listed below, is \$11,202,220.

Description and Builder	Estimated Unit Cost
11 2,250-hp. passenger locomotive "A" units (Electro-Motive Division, General Motors Corporation) ...	\$251,190
9 1,500-hp. road-switchers (Electro-Motive) .....	183,963
1 1,500-hp. road-switcher (Electro-Motive) .....	172,637
5 1,500-hp. road-switchers (Electro-Motive) .....	176,338
11 1,500-hp. road-switchers (Electro-Motive) .....	158,216
9 1,500-hp. road-switchers (Electro-Motive) .....	154,270
4 1,500-hp. road-switchers (Electro-Motive) .....	179,937
1 1,500-hp. road-switcher (Electro-Motive) .....	202,372
5 600-hp. switching locomotives (Electro-Motive) .....	80,985
1 600-hp. switching locomotive (Electro-Motive) .....	91,481
6 600-hp. switching locomotives (Electro-Motive) .....	82,958
100 70-ton steel ore cars (Bethlehem Steel Company) .....	6,391

The certificates, to be dated April 1, would mature in 15 annual installments of \$560,000 each, beginning April 1, 1954. They would be sold by competitive bidding, with the interest rate to be set by such bids.

**NEW YORK CENTRAL.**—To assume liability for \$9,375,000 of equipment trust certificates, to finance in part 2,500 hopper cars and one self-propelled passenger coach. Estimated total cost of this equipment is \$12,673,700.

Description and Builder	Estimated Unit Cost
2,500 55-ton steel hopper cars (Despatch Shops) .....	\$ 5,008
1 RDC-1 self-propelled passenger coach (Budd Company) .....	153,700

The certificates, dated March 15, would mature in 15 annual installments of \$625,000 each, beginning March 15, 1954. They would be sold by competitive bidding, with the interest rate to be set by such bids.

## Dividends Declared

**CHICAGO & NORTH WESTERN.**—preferred, \$3.25, payable March 6 to holders of record February 24.

**CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC.**—series A preferred, \$5, payable March 19 to holders of record February 27.

**CHICAGO, ROCK ISLAND & PACIFIC.**—\$1, quarterly, payable March 31 to holders of record March 11.

**COPPER RANGE.**—20¢, quarterly, payable March 16 to holders of record February 20.

**DELAWARE & BOUND BROOK.**—50¢, quarterly, payable February 20 to holders of record February 13.

**FORT WAYNE & JACKSON.**—5½% preferred, \$2.75, semiannual, payable March 2 to holders of record February 20.

**KANSAS CITY SOUTHERN.**—4% preferred, \$1, quarterly, payable April 15, July 15, October 15 and January 15, 1954, to holders of record March 31, June 30, September 30 and December 31.

**MISSOURI-KANSAS-TEXAS.**—7% preferred A, \$1.25, accumulated, payable April 1 to holders of record March 16.

**NORFOLK & WESTERN.**—75¢, quarterly, payable March 10 to holders of record February 5.

**NORTH PENNSYLVANIA.**—\$1, quarterly, payable February 25 to holders of record February 18.

**PITTSBURGH & WEST VIRGINIA.**—50¢, quarterly, payable March 16 to holders of record February 20.

**PITTSBURGH, YOUNGSTOWN & ASHTABULA.**—7% preferred, \$1.75, quarterly, payable March 2 to holders of record February 20.

**ST. LOUIS-SAN FRANCISCO.**—common (increased), 62½¢, payable March 16 to holders of record March 2; 5% convertible preferred, A, \$1.25, quarterly, payable March 16, June 15, September 15 and December 15, to holders of record March 2, June 1, September 1 and December 1.

**VIRGINIAN.**—62½¢, quarterly, payable March 13 to holders of record February 27.

## Security Price Averages

	Feb. 17	Prev. Week	Last Year
Average price of 20 representative railway stocks	66.97	66.99	55.22
Average price of 20 representative railway bonds	94.56	94.88	91.93



## RAILWAY OFFICERS

### EXECUTIVE



Glenn H. Carlson, general tax agent of the Minneapolis & St. Louis, whose appointment as vice-president and comptroller was announced by *Railway Age* January 12.

### FINANCIAL, LEGAL & ACCOUNTING

C. H. Bender, whose retirement as treasurer of the Soo LINE was announced in *Railway Age* January 5, page 53, joined the railroad October 9, 1907, as a clerk and timekeeper. In subsequent years he worked as clerk



C. H. Bender

to a track gang and cashier in the paymaster's department, becoming assistant paymaster in 1918. In 1921 he was advanced to the position of paymaster, and on September 12, 1922, was elected treasurer—the position he held at the time of his retirement.

As *Railway Age* reported January 12, M. I. LaBelle, assistant comptroller of the Soo LINE and the DULUTH, SOUTH SHORE & ATLANTIC, has been appointed comptroller at Minneapolis, succeeding J. B. Donnelly, who has retired after more than 50 years of

railroad service. R. M. Olson, assistant to comptroller, has been named auditor of disbursements succeeding A. T. Haugen, who has been appointed assistant comptroller.

Mr. LaBelle began his railroad work in 1920 with the Minneapolis & St. Louis, where he worked in clerical positions in the office of auditor of disbursements. He entered the service of the Soo Line as a traveling special accountant in 1928. In 1932 he was appointed chief clerk. In 1943 he was promoted to assistant auditor disbursements and during November of



M. I. LaBelle

the same year was named auditor of disbursements. In 1947 he was appointed assistant comptroller.

Mr. Donnelly was born in Scotland. After working as a messenger with the Chicago, Rock Island & Gulf (now CRI&P), and in clerical capacities with the Kansas City, Mexico & Orient (now Santa Fe), Mr. Donnelly joined the Soo Line in 1920 as chief clerk to auditor of capital expenditures. In June 1922 he was promoted to auditor and in June 1936 was named auditor of disbursements. He received his appointment to comptroller in 1943.

Mr. Olson began service for the Soo in 1923 as a stenographer in the office of auditor of capital expenditures. In 1936 he was appointed traveling joint facility accountant, and in 1943 was promoted to chief clerk in the capital expenditures section of the disbursements department. Mr. Olson was appointed assistant auditor disbursements in 1947, and in 1949 was named assistant to comptroller.

### OPERATING

Mrs. Doris C. Rosen, chief clerk to general manager of the BANGOR & AROOSTOOK at Bangor, Me., has been named superintendent of dining cars; she is believed to be the only woman in the United States to hold such a position. Mrs. Rosen is a native of Sebec, Me., and has spent most of her career with the B&A, joining it as secretary to Superintendent Frank

H. Daggett, and being appointed chief clerk to general manager in 1949. She has been a member of the Bangor City Council for the past three years; and is currently chairman of the Legislative Steering Committee of the Maine Federation of Business & Professional Women, and legislative chairman of the Bangor Business & Professional Women's Club. She is a past president of both the state and local organizations. In 1950 Mrs. Rosen served as a member of the Governor's Tax Revision Committee.

As reported in *Railway Age* January 12, page 254, the RAILWAY EXPRESS AGENCY has appointed E. M. Benson, M. S. Cogan and J. A. Papa as general managers of the Gulf, Mississippi Valley and Midwest-Texas departments, with headquarters at Atlanta, St. Louis and Houston, respectively. G. Y. Reed, general manager of the Texas department at Houston, has retired.

Mr. Benson started in the express business in 1918 as a driver at Kennebunkport, Me., his home town. After holding various positions, including



E. M. Benson

that of agent, he was appointed a division supervisor and then chief clerk to general manager of the Northeastern department at Boston. He was later appointed superintendent of the Eastern New York division at Albany and last year became assistant to vice-president of Eastern departments at New York.


Mr. Cogan started his express career at Philadelphia in 1917. He was superintendent of the Boston division, safety director of Eastern departments, and supervisor of vehicles at Philadelphia, among other positions, prior to being named assistant general manager at New York in 1950.

Mr. Papa entered express service in 1924 and, following service in supervisory capacities at Detroit, Canton and Chicago, was named superintendent at Los Angeles in charge of the Southern California, Arizona & New Mexico division.

(Continued on page 66)



CAR BUILDERS TO



# IS MASS PRODUCTION HERE TO STAY?

Mass production has a firm foothold in America—it's built right into our way of life. And for good reason! It's the most economical, the fastest, the best way of producing most anything. This, you already know.

But do you fully appreciate A.C.F.'s *Standardized Box Cars*... and know *why* mass production facilities enable A.C.F. to turn out a better car... *why* it's more advantageous for *you* to buy than to build??? Here's the story in a nutshell!

## **CARS ARE STANDARDIZED**

...which means more solidly built cars of fully interchangeable sub-assemblies and standard parts!

## **YOU GET MORE VALUE PER DOLLAR**

...and can order in lots of 10 or 100 cars at any time for scheduled delivery!

## **YOUR SHOPS AVOID OVER-EXPANSION**

...no need to duplicate the cost of A.C.F.'s ready-and-waiting facilities in shops, tooling, and personnel!

TO AMERICA'S RAILROADS

a.c.f.



(Continued from page 63)

Mr. Reed entered express service with Wells, Fargo & Co., an REA predecessor, in 1903. He held a number of supervisory positions in west-



M. S. Cogan



J. A. Papa



G. Y. Reed

ern and southwestern states prior to 1918, when he was appointed superintendent at Fort Worth. Subsequently he served as superintendent at Houston, and in 1945 was appointed assistant to vice-president at San Francisco. He became general manager at Houston in 1948.

## TRAFFIC

As *Railway Age* announced January 12, **W. H. Herrin**, assistant to freight traffic manager of the SOUTHERN PACIFIC at Chicago, has been promoted to general freight agent—rates, at Chicago.

Mr. Herrin first joined the Nashville, Chattanooga & St. Louis as a clerk in 1918. In 1923 he became associated with the SP as a clerk at Atlanta, Ga. During his subsequent career he served as city freight and passenger agent, city freight agent at Chicago, traveling freight agent, and assistant chief clerk. In 1939 he was promoted to general agent at Washington, D.C. From 1941 to 1945 he served with the armed forces, resuming his position with the SP on receipt of his discharge. In 1947 he was appointed assistant to freight traffic manager.

As *Railway Age* reported January 12, **J. C. Kirk**, freight traffic manager of the NASHVILLE, CHATTANOOGA & ST. LOUIS, has retired. Succeeding Mr. Kirk is **F. A. Burke**, general freight agent. **J. H. Sutton**, assistant general freight agent, sales and service, has been appointed general freight agent, rates and divisions. **H. L. Hanes**, assistant to freight traffic manager, also has retired, along with **J. F. Gaffney, Jr.**, general passenger agent. **Donald R. Hackney** has been promoted to succeed Mr. Gaffney as general passenger agent.

Mr. Kirk entered railway service in 1896 with the NC&StL. In 1900 he



J. C. Kirk

became rate clerk in the general freight office at Nashville. Two years later he was named chief clerk. In 1919 he became assistant general freight agent, and in 1937 general freight agent. During 1939 he was promoted to the position from which he has now retired.

Mr. Burke joined the NC&StL as a messenger in the auditor's office in 1903, and a year later was appointed clerk in the general freight office. From 1922 to 1936 he served as commerce

agent. In 1936 he was named assistant general freight agent, and his promotion to general freight agent took place in 1939.

Mr. Sutton began his railway career with the Louisville & Nashville operating department in 1920, but later that



F. A. Burke

year he joined the NC&StL as a clerk in its general freight office. In May 1929 he became freight traffic agent at St. Louis; was named chief clerk in 1946, and promoted to assistant general freight agent in 1948.

Mr. Hanes was first employed as messenger for the NC&StL, a year later became a clerk, and in 1912 was appointed assistant general freight agent, from which position he resigned in 1919 to enter private business. In 1931 he rejoined the NC&StL as freight traffic agent at Kansas City. Beginning in 1936 he served for 10 years as commerce agent at Nashville, receiving his promotion to assistant to freight traffic manager in 1946.

Mr. Gaffney joined the NC&StL in 1902 as file clerk at Nashville. He subsequently served as assistant city ticket agent, city ticket agent and assistant general passenger agent. In 1930 he was promoted to general passenger agent.

Mr. Hackney entered railroad service in 1911 as a baggage clerk for the NC&StL. In 1942 he became chief clerk to general passenger agent, and in 1947 was promoted to assistant general passenger agent.

**Hunter Gordon Walker** has been appointed assistant freight traffic manager of the SEABOARD AIR LINE at Norfolk, Va. (*Railway Age*, January 19). Mr. Walker was born at Portsmouth, Va., December 11, 1902, and joined the SAL September 1, 1918, as assistant file clerk in office of chief engineer at Norfolk, subsequently serving as junior draftsman and assistant file clerk in that office. He then transferred to the office of freight traffic manager, where he was file clerk, clerk, statistician, assistant chief clerk, and chief clerk, successively. On Sep-

(Continued on page 69)

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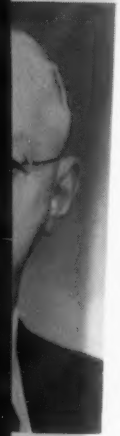
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## LITERATURE and PAMPHLETS Offered by Railway Age Advertisers

Following is a compilation of literature, pamphlets and data sheets offered free-of-charge by advertisers in the four February issues, and by recent manufacturers' news releases. To receive the additional data desired, merely circle the item number(s) on the card below.

### 1019. Reflective Sheeting

*Mimesota Mining & Mfg. Co.* Complete information offered in "Reflective Sheeting" booklet on Scotchlite Reflective Sheeting for signs and signals.

### 1020. Water Coolers

*E. W. Mink & Associates, Inc.* Catalog No. R52 illustrates and gives complete details on the Mink line, including: water coolers, caboose heaters, luggage racks, metal lavatories, water tanks, dry hoppers, medicine cabinets, and heating stoves.

### 1021. Railroad Radio

*Westinghouse Electric Corporation.* Further information available on the Westinghouse FE Railroad Radio.

### 1022. Creosote Oil

*United States Steel Corporation.* Complete information offered on pressure-treating wood with U S S Creosote Oil.

### 1023. Fork Trucks

*Clark Equipment Company.* Information available on the Powrworker line, including the stacker, pallet truck, platform truck, and tug tractor.

### 1024. Reproduction Cloths

*Eastman Kodak Company.* Illustrated booklet "Modern Drawing and Document Reproduction" gives detailed, illustrated facts on the improved Kodagraph Reproduction Cloths.

### 1025. Rolling Steel Doors

*The R. C. Mahon Company.* Complete information including specifications offered in Catalog G-53 on Mahon Rolling Steel Doors.

### 1026. Weed and Brush Control

*National Aluminate Corporation.* Complete details offered on Nalco spray cars and weed or brush control chemicals.

### 1027. Switch Stands

*Ramapo Ajax Division American Brake Shoe Co.* Descriptive literature offered on the complete line of switch stands.

### 1028. Refrigerator Car Insulation

*American Hair & Felt Company.* Complete data offered on Streamlite Hairinsul all-hair refrigerator car insulation.

### 1029. Solid Journal Bearings

*Magnus Metal Corp.* *subs National Lead Co.* 20-page factual booklet "The Facts About AAR Solid Journal Bearings" give a complete picture of freight car journal bearings.

### 1030. Journal Box Lids

*Railway Steel-Spring Div. American Locomotive Co.* Complete information offered on Alcolid journal box lids.

### 1031. Rust Preventative

*Rust-Oleum Corporation.* Catalog "Rust-Oleum Railroad Applications" gives details on numerous uses of this rust preventative.

### 1032. Heavy Duty Machine Tools

*Consolidated Machine Tool Corporation.* Full details offered on any of the complete line of Consolidated heavy duty machine tools, including: borers, lathes, mills, grinders, crank planers, etc. *Please specify.*

### 1033. Weed Control Chemicals

*General Chemical Division Allied Chemical & Dye Corporation.* Complete information offered on General Chemical's Rite-o-way TCA-Chlorate and other weed control chemicals.

### 1034. Pressure Treated Wood

*American Creosoting Company.* Full explanation on the improved Lowry process of Creosoting under Pressure offered.

### 1035. Chilled Car Wheels

*Association of Manufacturers of Chilled Car Wheels.* 64-pages of factual data in new booklet "The Chilled Car Wheel" on Chilled car wheel characteristics, properties, manufacturing operations, inspection practices, as well as the main AAR chilled car wheel specifications, and other rules and practices from the AAR Wheel and Axle Manual, Section XX.

### 1036. Batteries

*Edison Storage Battery Div. Thomas A. Edison, Inc.* More complete information on the use and performance of Edison batteries in Bulletin SB 3802.

### 1037. Air Dump Cars

*Magor Car Corporation.* Complete information offered on the Magor Air Dump Cars.

### 1038. Packings & Gaskets

*Johns-Manville.* 6-page Johns-Manville packings guide shows diagrammatically 32 J-M packings, allowing packing selection according to requirements.

### 1039. Vibrator-Converter

*Cornell-Dubilier Electric Corp.* Technical bulletin available gives specific data on the C-D Vibrator Converter.

(Continued first column reverse side)

## Additional Product Information

This is a complete list of products mentioned in the ads in this issue. For more data on any product(s) shown, circle the page number(s) on the cards below, fill in and mail. Note: If the advertiser mentions more than one product, or if more than one ad appears on the page, write in the name of the product interested in.

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## LITERATURE & PAMPHLETS

### 1040. Diesel Locomotive Wiring

*The Okonite Company.* Bulletin RA-2078A gives complete detailed information and dimensional data on Okonite-Okoprene Diesel Locomotive Wiring.

### 1041. Industrial Batteries

*Gould-National Batteries Inc.* Full information on the Gould Plus-Performance Plan in booklet available to users of any type battery.

### 1042. Air Dump Cars

*Differential Steel Car Co.* Full story available on Differential Air Dump Cars.

### 1043. Diesel Electric Locomotive-Cranes

*Industrial Brownhoist Corp.* Complete information offered on Brownhoist Diesel Electric Locomotive-Cranes, available in capacities from 25 to 80 tons.

### 1044. Alloy Steels

*Republic Steel Corporation.* Booklet "Republic Alloy Steels, and How to Get the Most Out of Them" gives factual case histories.

### 1045. Resilient Side Bearings

*The Symington-Gould Corporation.* Bulletin #S-415 gives complete data on Symington (constant contact) resilient side bearings for passenger and freight service.

### 1046. Eye Protection

*American Optical Company.* Booklet "Improved Industrial Vision" tells how American Optical's Industrial Vision, Eye Protection Program Works.

### 1047. Steam Generator

*Cyclotherm Div. United States Radiator Corp.* Descriptive folder "All Your Questions Are Answered by Cyclotherm" gives data on Cyclotherm Steam Generators.

### 1048. Snubbers

*American Steel Foundries.* Bulletin offered describing ASF Simplex Unit Type Snubbers, giving details on construction, operation and snubber-coil arrangements.

### 1049. Glass Fiber Insulating Wool

*Glass Fibers, Inc.* Complete information on Microlite glass fiber insulation wool, made by an electronic-extrusion process.

### 1050. Low-Alloy, High-Strength Steel

*Bethlehem Steel Company.* Catalog #259 gives information and reference data on Mayari R low-alloy, high-strength steel.

### 1051. Automobile Rental Service

*Hertz Drive-Your-Self System, Inc.* Complete details on the Hertz Rail-Auto Travel Plan providing rail travelers with new cars at train destinations.

### 1052. Tie Tamper

*Railway Maintenance Corporation.* Complete details offered on R-M-C's McWilliams tie tamper with split-head design.

### 1053. Steel Buildings

*Armco Drainage & Metal Products.* Detailed information available on Armco Steel Buildings, for permanent or temporary sites.

### 1054. Corrosion Resisting Paint

*The Sherwin-Williams Co.* 8 page brochure B-759 gives complete descriptive data on Carclad, a corrosion resisting finish for covered hopper cars, tank cars, etc.

### 1055. Automatic Crossing Signals

*Western Railroad Supply Company.* Brochure RA253 "Grade Crossing Is Your Business" illustrates applications of grade crossing safety products.

### 1056. Braided Wire Rope Sling

*Union Wire Rope Corporation.* Tuffy Sling Handbook and Rigger's Manual, gives complete braided sling information, graphically illustrated.

### 1057. Electric Typewriter

*Remington Rand Inc.* Complete information on the Electri-conomy electric typewriter in the booklet "Take a Letter" (RE8499).

### 1058. Materials Handling Equipment

*Yale & Towne Manufacturing Co.* Booklet available "The Picture Story of Yale Materials Handling Equipment."

### 1059. Exterior Fir Plywood

*Douglas Fir Plywood Association.* Complete information on variety of plywood and various uses in "1953 Basic Plywood Catalog".

## MANUFACTURERS' ANNOUNCEMENTS

The following is a compilation of data offered by manufacturers through special editorial and news releases, and not contained in advertisements in February issues of *Railway Age*.

### 1060. Storage Batteries

*Edison Storage Battery Div. Thomas A. Edison, Inc.* 24-page manufacturer's booklet presents characteristics, electrical data, dimensions, weights, methods of assembly and application data for the Edison Nickel-Iron-Alkaline Storage Battery.

### 1061. Electrical Insulating Tapes and Accessories

*Minnesota Mining & Mfg. Co.* 12-page bulletin describes and illustrates the "Scotch" brand of electrical tapes and related electrical products for construction and maintenance including electrical spring connectors, putty type insulating compound and electrical coatings.

### 1062. Welded Tank Cars

*American Car & Foundry Company.* 24-page profusely illustrated Bulletin 53-TC "Welded Tank Cars" lists advantages of all-welded standardized design tank cars, presents specifications an exact diagram of details, and page after page of pictures with individual descriptive data on ACF tank cars.

### 1063. Casting

*American Car & Foundry Company.* 40-page pictorially presented story of gray iron casting "Artistry in Metal" gives in seven sections the history of casting, an outline of casting procedures, a pictorial foundry tour, and a presentation of the various ACF castings.

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New York 7, New York

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 tember 1, 1943, Mr. Walker was appointed assistant to freight traffic manager, which position he held until his recent promotion.

**Arthur J. Crookshank** has been promoted to assistant general freight traffic manager of the NEW YORK CENTRAL at New York, as reported in *Railway Age* January 12, page 256. Mr. Crookshank was born at New Brighton, Pa., in 1902 and joined the Central in 1923 as a clerk in the freight traffic department at Cleveland. After serving as city freight agent at Cleveland, traveling freight agent at Toledo and



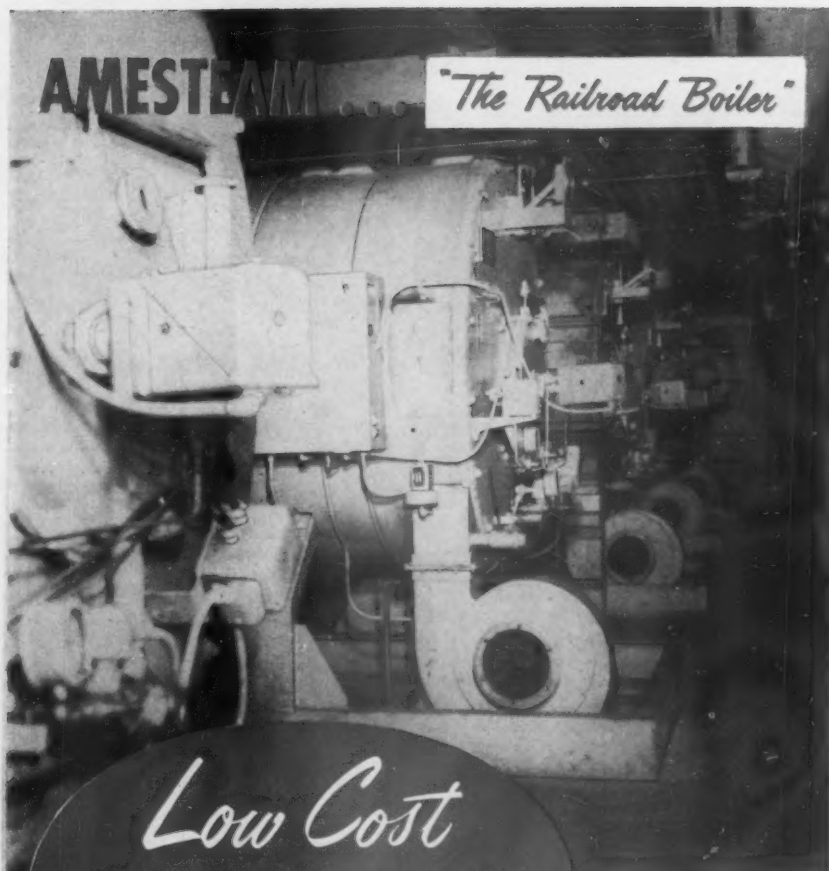
Arthur J. Crookshank

city freight agent at New York, Mr. Crookshank became division freight agent at Columbus in 1942, industrial agent at Cleveland in 1944, and assistant general freight agent there in 1946. In May 1951 he was appointed assistant to general freight traffic manager at New York and on April 1, 1952, was named assistant to assistant vice-president of freight traffic.

#### ENGINEERING

**Robert F. Bush**, inspector maintenance of way of the DELAWARE, LACKAWANNA & WESTERN, has been appointed engineer maintenance of way, and **B. L. Beier**, division engineer, has been appointed engineer maintenance of structures, both with headquarters as before at Scranton, Pa. Messrs. Bush and Beier have assumed duties formerly performed by **J. P. Hiltz, Jr.**, engineer maintenance of way, whose appointment as chief engineer maintenance of way of the NEW YORK CENTRAL was reported in *Railway Age* February 9. **J. H. Schoonover**, assistant engineer of the DL&W, has been appointed division engineer, with headquarters as before at Scranton, succeeding Mr. Beier. **James A. Pollard**, roadmaster, has been appointed assistant to engineer maintenance of way, with headquarters as before at Hoboken, N. J.

(Continued on page 72)



New York Central's pattern for progress in its modern new Stanley Diesel Shop at Toledo, Ohio, includes a battery of five compact, highly-efficient AMESTEAM Generators.

These close-coupled, fully-automatic units provide an unfailing supply of dependable heat and process steam at a cost that drives operational figures sharply downward. And that's the story on a host of roads, both large and small who are AMESTEAM users. The "Railroad Boiler" evaporates 15¾ pounds of water on 1 pound of fuel using No. 6 oil, provides better than 80% thermal efficiency. Accommodates oil or gas fuel. Single units available from 10 to 600 hp.

Phone, write or wire.

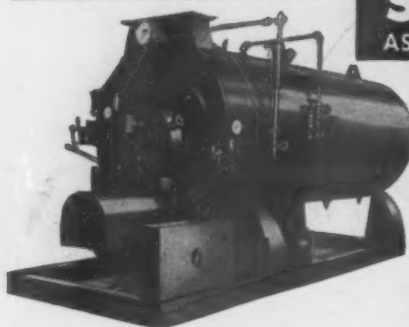
Exclusive Distributors to the Railroads  
 Engineering, Sales and Service

RAILROAD SUPPLY and EQUIPMENT, Inc.

148 ADAMS AVE., SCRANTON 3, PA.

Phone Scranton 7-3391

REGARDLESS OF SIZE  
**CYCLOTHERM**  
GIVES YOU ...



**STEAM**  
AS YOU NEED IT

with **CYCLONIC COMBUSTION!**

If your steam requirements have a tendency to change at different times of the day, the most economical and efficient boiler you can install is a Cyclotherm Steam Generator.

Cyclotherm means *Quick Steam* when called for. This reduces fuel consumption during "coming up" periods and permits continuous, quick adjustment to load changes. The Cyclotherm Boiler is able to deliver steam faster because of its extremely high heat transfer and the fact that it has much greater water circulation since the combustion chamber is radiating heat evenly along its entire length.

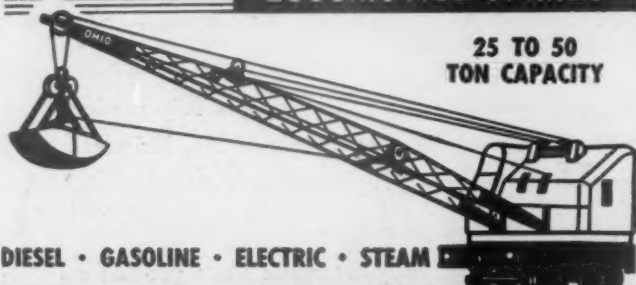
REMEMBER—Full power operation from a cold start in 15 to 20 minutes. Guaranteed 80% efficiency. Savings up to 50% on maintenance. Great fuel operational savings. Boilers are designed for oil or gas operations from 18 thru 500 h.p., 15 to 200 lbs. operating pressure.

Write today for latest descriptive folder, "All Your Questions Are Answered by Cyclotherm."

**CYCLOTHERM** STEAM GENERATORS  
DIVISION UNITED STATES RADIATOR CORP.

DEPARTMENT 36, OSWEGO, NEW YORK

**OHIO**  
LOCOMOTIVE CRANES



25 TO 50  
TON CAPACITY

DIESEL • GASOLINE • ELECTRIC • STEAM

THE OHIO LOCOMOTIVE CRANE CO  
BUCYRUS, OHIO

**YOUNGSTOWN STEEL CAR CORPORATION**  
NILES, OHIO



Large scale producers of . . . big weldments on a production basis—die pressed channels for bus, truck and trailer chassis—railway cars, repairs and parts—miscellaneous heavy presswork.

**HYMAN-MICHAELS COMPANY**

LOCOMOTIVES  
LOCOMOTIVE CRANES  
BOX CARS  
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122 S. Michigan Ave.  
Chicago 3, Ill.

San Francisco Los Angeles St. Louis New York

**CLASSIFIED DEPARTMENT**

**NEW AND USED EQUIPMENT**

**FOR SALE**

**Fourteen 70-ft. all-steel flat cars.**

Wood decking and A B brakes. One private railroad car with living room, dining room, 3 bedrooms, and kitchen. All cars in first class condition. Will pass interchange. Inspection can be made at our Chicago yard.

*Erman-Howell Division*

**LURIA STEEL AND TRADING CORP.**

332 South Michigan Avenue Chicago 4, Illinois  
Phone WAbash 2-0250

**FOR SALE**

**Freight Car Repair Parts  
Storage Tanks**

*Home of Unconditionally Guaranteed Material*

**Midland Reclamation Co.**

5841 Hamilton St. Louis 21, Mo.  
Phone EVergreen 6200

**FOR SALE**

65 ton General Electric 380 HP diesel electric locomotive. Rebuilt. 4 heavy duty steel flat cars. 70 ton capacity.

30 ton Industrial Brownhoist locomotive crane gasoline powered.

**MISSISSIPPI VALLEY EQUIPMENT CO.**

509 Locust St. St. Louis 1, Mo.

**KEEP  
BUYING  
BONDS**



# FOR CONTROL

\*  
"G", the unit of change in velocity which is equal to the pull of gravity or 32.2 feet per second per second.

## TIME TESTED TWIN CUSHIONS

"G"s, accelerations and decelerations, are part and parcel of the business of railroading, but, uncontrolled, they cause untold damage and cost fantastic sums year after year. • High "G"s and violent changes in "G"s create shock, and it is shock primarily that damages cars and lading and is a contributing cause of hot boxes. • Waughmat Twin Cushions reduce the "G"s of impact, but far more important, Twin Cushions so dampen changes in acceleration and deceleration as to reduce shock to a minimum. Eliminating all metal-to-metal contact, Twin Cushions "take the bite out of impact". Reducing longitudinal shock, they also halve component vertical shock thus providing added protection against one of the chief causes of lading damage. • For maximum car and lading protection . . .

for "G" control . . . Specify

### WAUGHMAT

*Twin Cushions*

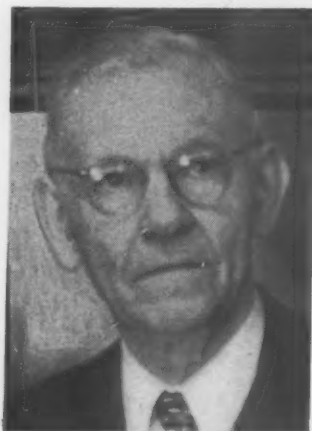


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UNCONDITIONALLY

WAUGH EQUIPMENT COMPANY, New York • Chicago • St. Louis • Canadian Waugh Equipment Company: Montreal

(Continued from page 69)

As reported in *Railway Age* January 19, page 57, **John M. Nicholson** has been appointed chief engineer of the LONG ISLAND at Jamaica, N.Y. Mr. Nicholson was born at New York September 26, 1881, and was graduated from St. Francis Xavier College (A.B., 1900) and Columbia University (C.E., 1903). Mr. Nicholson joined the LI in



**John M. Nicholson**

October 1903 as draftsman, advancing to assistant engineer in June 1905. He was appointed assistant engineer of the Pennsylvania in October 1928, and assistant to chief engineer of the PRR's New York Zone in November 1939. In 1949 he was named assistant chief engineer of the LI, in which capacity he served until his recent promotion.

**Robert P. Puddester** has been appointed engineer maintenance of way of the Atlantic region of the CANADIAN NATIONAL, and **Robert M. Wickwire** has become building engineer of that region, both at Moncton, N.B. (*Railway Age* January 19). Mr. Puddester was born at St. John's, Nfld., and attended Methodist College there. He entered the service of the Newfound-



**Robert P. Puddester**

land Railway as a clerk in the engineering department at St. John's in

January 1924, and was appointed draftsman in July 1931, assistant engineer in July 1934, acting chief engineer in January 1947, and chief engineer in 1948. With incorporation of the Newfoundland in the CNR in 1949, Mr. Puddester was appointed district



**Robert M. Wickwire**

engineer. In August 1952 he was appointed principal assistant engineer at Moncton, which position he held until his recent appointment.

Mr. Wickwire was born at Yarmouth, N.S., and was graduated from Nova Scotia Technical College (B.E., 1947). He joined the CNR in May 1947 as an instrumentman at Campbellton, N.B., transferring to Moncton a year later; and was appointed structural designer in June 1949, which position he held until his recent appointment.

**Frederick W. Hutchinson**, assistant engineer maintenance of way of the CENTRAL VERMONT, has been appointed chief engineer, with headquarters as before at St. Albans, Vt., succeeding **James C. Boyle**, whose re-



**Frederick W. Hutchinson**

tirement on January 31 was announced in *Railway Age* January 26, page 64. **Richard S. Sabins** has been appointed assistant engineer maintenance of way and **Dwight G. Briggs** has been

named office engineer. Mr. Hutchinson was born at Enosburg Falls, Vt., and graduated from Norwich University (B.S. in C.E., 1932). He entered railroad service with the CV on January 1, 1936, after three years' service with the Vermont State Highway Department. He was promoted from transitman to assistant engineer on June 1, 1939, and on March 8, 1941, went into the Army as first lieutenant. After being discharged as a lieutenant colonel, he returned to the CV as office engineer on October 16, 1945, and became assistant engineer, maintenance of way, on May 16, 1949.

Mr. Boyle was born at Newton, Mo., 66 years ago and joined the CV February 11, 1916, as office engineer. In 1924 he was promoted to assistant engineer of track and on March 1, 1927, to engineer of track. He became assistant engineer August 1, 1937; assistant chief engineer May 16, 1949, and chief engineer July 20, 1951.

## MECHANICAL

**R. L. Lynn**, assistant shop superintendent, locomotive department, of the SEABOARD AIR LINE, at Jacksonville, Fla., has been appointed master mechanic of the Alabama division at Americus, Ga., succeeding **R. L. Harper**, who has been transferred to the Carolina division at Savannah, Ga., to replace **H. E. Aenchenbacher**, transferred. The title of **L. B. Alexander**, shop superintendent, locomotive department at Jacksonville, has been changed to shop superintendent, with jurisdiction over all mechanical department operations at the Jacksonville shops. The position of shop superintendent, car department, at Jacksonville has been abolished.

**J. R. Van Nortwick**, terminal master mechanic of the CHICAGO, BURLINGTON & QUINCY at Chicago, has been named master mechanic at Galesburg, Ill. **H. A. Rollwagon** has been appointed master mechanic at Chicago, in charge of passenger service between Chicago and Aurora.

**J. K. Peters**, mechanical engineer of the DENVER & RIO GRANDE WESTERN, has been appointed assistant to chief mechanical officer. Succeeding Mr. Peters is **Robert L. Jacobsen**, former special apprentice at Burnham shops. **Paul D. Starr**, master mechanic at Grand Junction, has been named superintendent of diesel equipment. **Frank A. Robinson** has been appointed assistant electrical engineer.

As *Railway Age* reported January 5, **Charles E. Melker**, superintendent motive power, Western lines, of the CHICAGO, BURLINGTON & QUINCY, has been appointed general superintendent motive power of the CB&Q and the Colorado & Southern at Chicago.

Mr. Melker began his railway career in 1907, as a machinist apprentice with

the CB&Q, at Lincoln, Neb. His subsequent career has included the following positions: 1912, machinist; 1916, night roundhouse foreman and then foreman at Ravenna, Neb.; 1918, foreman at Hastings, Neb.; 1918, roundhouse foreman and, later the same year, general foreman at Greybull, Wyo.; 1920, master mechanic



Charles E. Melker

at Casper, Wyo.; 1930, master mechanic at Hannibal, Mo.; and 1936, superintendent motive power.

**Herbert W. Faus**, engineer, locomotive equipment, of the NEW YORK CENTRAL SYSTEM at New York, has retired, after more than 37 years of service. **W. S. H. Hamilton**, engineer, electrical equipment, has, in addition, assumed Mr. Faus' duties. Mr. Faus was born at Muncy Valley, Pa., July 28, 1886, attended Syracuse University (C.E., 1910), and entered railroad service in 1910 as rodman for the Canadian Northern (now Canadian National). He joined the NYC in 1915



W. S. H. Hamilton

as an engineer specializing in air brakes. During and after World War I he was an administrative official with the government's Shipping Board Emergency Fleet Corporation. After his return to the NYC in 1923, Mr. Faus served successively as special engineer and materials and testing equip-

ment engineer. Since 1937 he has been engineer, locomotive equipment, in charge of design and construction of steam locomotives, at New York. Mr. Faus' development, the Twinplex Hot Box Alarm, and its variations, are widely used both in the United States and in foreign countries.

Mr. Hamilton was born at New Haven, Conn., December 31, 1890, and attended Sheffield Scientific School of Yale University (Ph.B., 1910). He began his career in 1911 in the testing department of the General Electric Company, subsequently serving as designing engineer, field engineer, commercial engineer, and electrification specialist. He was appointed assistant electrical engineer of the NYC in 1931, equipment electrical engineer in 1934 and engineer, electrical equipment, of the system in 1949.

## PURCHASES & STORES

As reported in *Railway Age* January 12, page 264, **Wellington A. Bamford** has been appointed purchasing agent and general storekeeper of the BANGOR & AROOSTOOK at Derby, Me. Mr. Bamford was born in Houlton, Me., and attended Bowdoin College. He joined the B&A in 1919 as storekeeper at Houlton, later becoming division storekeeper. Mr. Bamford was



Wellington A. Bamford

appointed acting general storekeeper at Derby in 1941 and general storekeeper in 1942. In 1944, when Edwin W. Peterson, then general storekeeper, returned from the Army, Mr. Bamford returned to Houlton as division storekeeper. Mr. Bamford was reappointed general storekeeper in 1946 and in November 1952 he became acting purchasing agent, relieving Mr. Peterson.

**D. A. Mount** has been appointed inspector of stores of the SOUTHERN PACIFIC at San Francisco, succeeding **C. M. Sullivan**, transferred.

**R. G. Hotchkiss**, general storekeeper for the CHICAGO SOUTH SHORE & SOUTH BEND, has been appointed

purchasing agent, succeeding **H. F. Kirk**, who has retired. Mr. Hotchkiss graduated from the University of Illinois in 1925 with a degree in electrical engineering. After a short time in the engineering department of the Chicago Rapid Transit Company, he joined the South Shore as student engineer in the engineer-accountant's of-



R. G. Hotchkiss

fice. In 1927 he was appointed car accountant, which position he held until he entered active service with the U. S. Naval Reserve in 1941. With his discharge in 1946 he returned to the CSS&SB as engineer of equipment. In 1952 he was appointed general storekeeper.

**L. G. Kohler**, who has been appointed general storekeeper of the BALTIMORE & OHIO at Baltimore (*Railway Age*, January 26), was born July 5, 1893, at Philadelphia, and entered railroad service there April 11, 1910, as laborer in the stores department of



L. G. Kohler

the B&O. He subsequently served as clerk, chief clerk, and storekeeper at Philadelphia, and division storekeeper at Cumberland, Md. Mr. Kohler was appointed regional storekeeper of the Central region December 1, 1944, and became storekeeper, Mount Clare, Baltimore, May 16, 1946.





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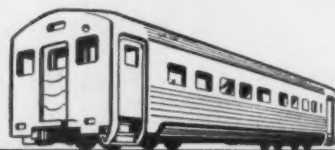
**MICROLITE** insulates efficiently against heat transfer

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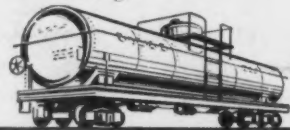
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The engineer for this job is about thirty years of age probably with experience in Valuation or A.F.E. departments. He is skilled at estimating cost of constructing or repairing railroad buildings and bridges. Ambitious man, meeting people easily, has good future in long established business in Chicago. Some travel. Please state qualifications. Box 216, RAILWAY AGE, 79 West Monroe St., Chicago 3, Illinois.

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New York-Pittsburgh-St. Louis

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**STEEL** in stock at  
**RYERSON**

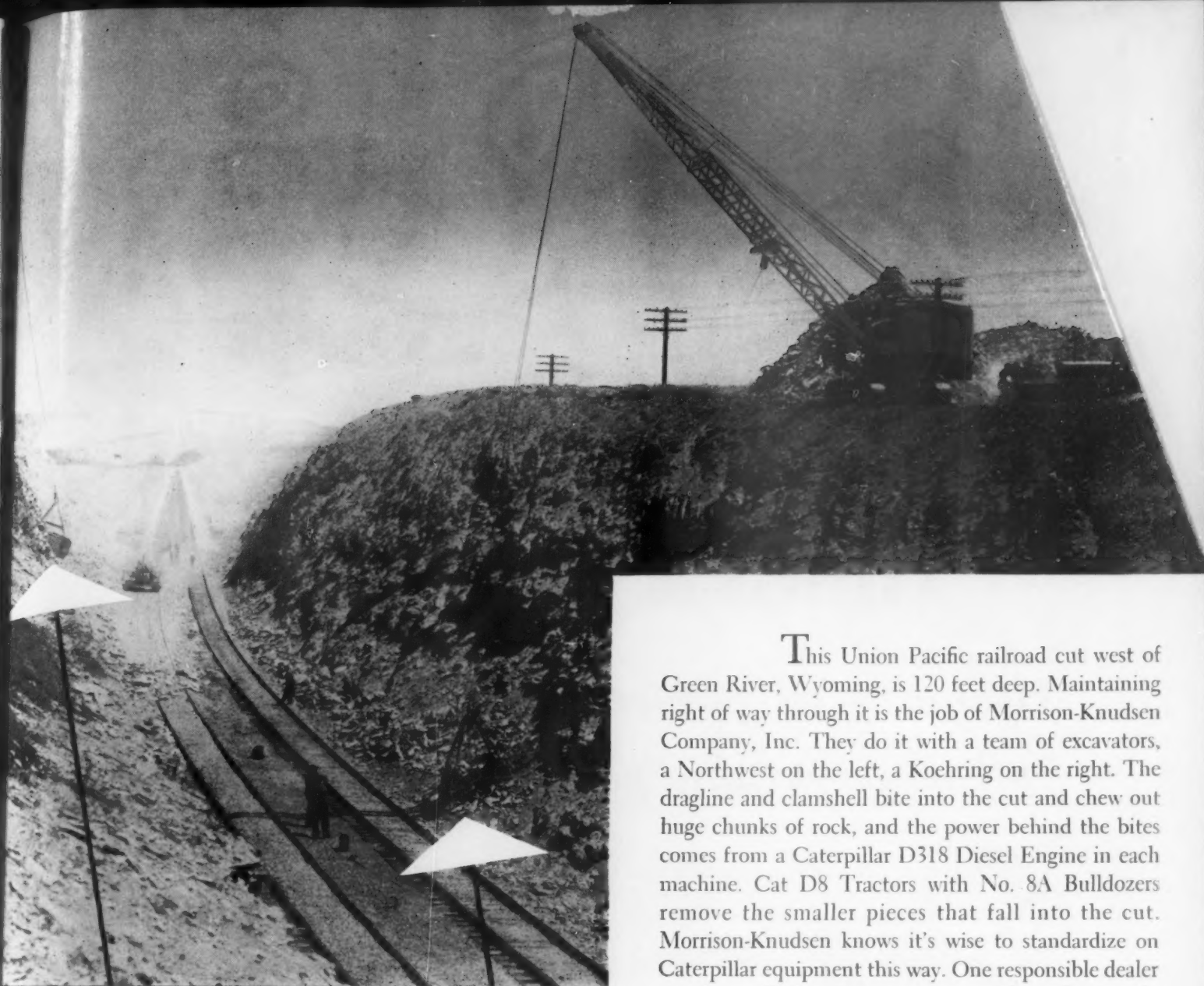
Every kind of steel is in stock for quick shipment though many sizes are often missing due to the heavy demand. Joseph T. Ryerson & Son, Inc., Plants: Chicago, Milwaukee, St. Louis, Cincinnati, Detroit, Cleveland, Buffalo, Boston, Philadelphia, Jersey City, Pittsburgh, Los Angeles, San Francisco, Seattle, Spokane

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**STAINLESS**—Alloy plates, sheets, bars, tubes





**What  
puts the  
teeth into  
bites  
like these?**

This Union Pacific railroad cut west of Green River, Wyoming, is 120 feet deep. Maintaining right of way through it is the job of Morrison-Knudsen Company, Inc. They do it with a team of excavators, a Northwest on the left, a Kochring on the right. The dragline and clamshell bite into the cut and chew out huge chunks of rock, and the power behind the bites comes from a Caterpillar D318 Diesel Engine in each machine. Cat D8 Tractors with No. 8A Bulldozers remove the smaller pieces that fall into the cut. Morrison-Knudsen knows it's wise to standardize on Caterpillar equipment this way. One responsible dealer can keep all the equipment promptly and properly serviced, performing the way it should.

Built in the world's most modern Diesel engine factory, all Cat Diesels are designed to give top performance on low-cost No. 2 furnace oil without fouling. That means real operating economy.

Leading equipment manufacturers can furnish reliable Caterpillar power in the machines they build. It will pay you to specify it when you buy. Your Caterpillar Dealer will be glad to demonstrate why.

He's the man to see for service, too, and for those genuine Caterpillar parts which guarantee you the same Caterpillar quality that's built into every one of these Diesel engines.

CATERPILLAR, PEORIA, ILLINOIS

**CATERPILLAR**

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**DIESEL ENGINES  
TRACTORS • MOTOR GRADERS  
EARTHMOVING EQUIPMENT**

92

# Railroads get new operating savings from grease-lubricated **TIMKEN® bearings!**

*Operating tests prove TIMKEN bearings go  
full wheel-turning period without attention!*

**E**XTENSIVE operating tests on passenger cars in regular service have proved that grease-lubricated Timken® roller bearings can safely go from wheel-turning to wheel-turning without attention! One railroad actually ran grease-lubricated Timken bearings more than 200,000 miles without adding lubricant!

## NEW OPERATING SAVINGS FOR RAILROADS

Now railroads can increase operating savings by switching from oil to grease lubrication of Timken bearings on passenger cars and diesels. Besides the big savings on lubricant, they can eliminate the man-hours previously needed for checking and addition of lubricant between wheel-turnings.

## 4 RAILROADS SWITCH TO GREASE

As a result of these tests, four leading railroads have already switched from oil to grease for their Timken

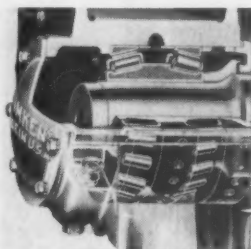
bearing equipped passenger cars. And more than a dozen other railroads are now getting favorable results from their wheel-turning to wheel-turning tests of grease-lubricated Timken bearings.

## CONVERSION NO PROBLEM






Timken bearings can be converted from oil to grease lubrication without modifying the bearings . . . without buying extra journal parts. And operating tests show that Timken bearings are the only railroad journal roller bearing using an AAR-approved grease which can consistently go a full wheel-turning period without adding lubricant.

Let us help you investigate the cost-saving advantages of grease lubrication of Timken bearings on your railroad. Write The Timken Roller Bearing Company, Canton 6, Ohio. Canadian plant: St. Thomas, Ontario. Cable address: "TIMROSCO".

**TIMKEN**  
TRADE-MARK REG. U. S. PAT. OFF.  
**TAPERED ROLLER BEARINGS**



*GREASE ME AT ONE  
WHEEL-TURNING ...FORGET  
ME 'TIL THE NEXT!*

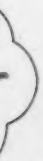
NOT JUST A BALL  NOT JUST A ROLLER  THE TIMKEN TAPERED ROLLER  BEARING TAKES RADIAL  AND THRUST  LOADS OR ANY COMBINATION

1957 FEB 24 AM 11 53  
ADMINISTRATIVE SERVICES  
DEPARTMENT OF COMMERCE

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